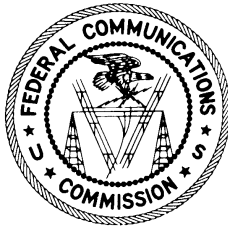


# **Local Telephone Competition: Status as of December 31, 2012**

Industry Analysis and Technology Division  
Wireline Competition Bureau  
November 2013



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## Local Telephone Competition: Status as of December 31, 2012

**Introduction.** The Commission has used FCC Form 477 to collect subscribership information from providers of local telephone service – the incumbent local exchange carriers (ILECs), competitive local exchange carriers (CLECs), and mobile telephony providers – for more than a decade.<sup>1</sup> The Commission has required interconnected Voice over Internet Protocol (“interconnected VoIP”) service providers to report subscribership information since December 2008 because the use of VoIP technology is growing rapidly and it increasingly is used to provide local telephone service.<sup>2</sup>

This report summarizes the information collected about telephone services as of December 31, 2012. It demonstrates continued growth in subscribership to interconnected VoIP and mobile telephony services and continued decline in subscribership to traditional wired telephone services.<sup>3</sup>

**Retail local telephone service.** Retail local telephone service customers are served by two wireline technologies – “end-user” switched access lines and interconnected VoIP “subscriptions” – and by mobile wireless subscriptions.

- In December 2012, there were 96 million end-user switched access lines in service, 42 million interconnected VoIP subscriptions, and 305 million mobile subscriptions in the United States, or 443 million retail local telephone service connections in total. See Figure 1.

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<sup>1</sup> See the Technical Notes and the Glossary that appear at the end of this report for more-detailed information about the Form 477 and the meaning of terms used in this report. For an overview of program history for the telephone services data, see *Local Telephone Competition: Status as of December 31, 2008* (June 2010) at pp. 1-2, available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html). Readers who are interested in historical trends in the data should note the changes in reporting requirements that were effective in 2008 and earlier, in 2005.

<sup>2</sup> The FCC’s rules (at 47 C.F.R. § 9.3) state:

An interconnected Voice over Internet Protocol (VoIP) service is a service that:

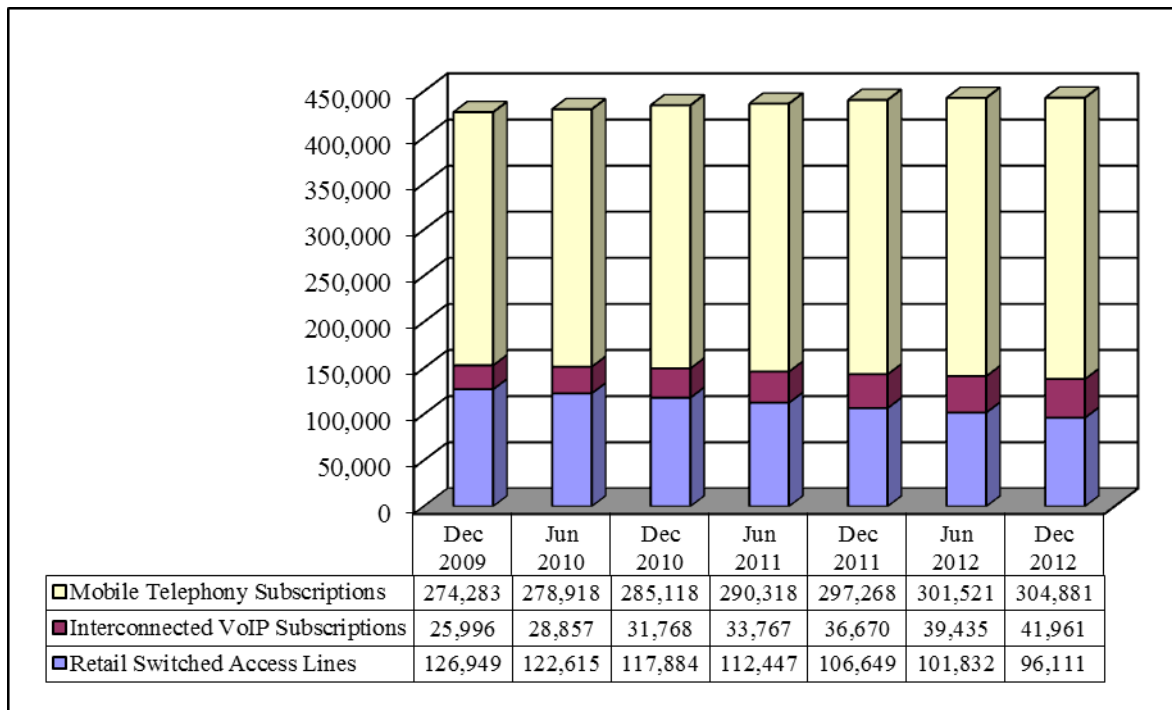
- (1) Enables real-time, two-way voice communications;
- (2) Requires a broadband connection from the user’s location;
- (3) Requires Internet protocol-compatible customer premises equipment (CPE); and
- (4) Permits users generally to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network.

We note that the current interpretation of element (4) of the definition excludes the VoIP services that Skype offers in the United States, and subscribers to those services are not reported on Form 477. Prior to the December 2008 data, companies such as Vonage that solely provide interconnected VoIP service did not file Form 477. Telephone companies and cable companies that provided local exchange telephone service were required to file Form 477 but were not required to report interconnected VoIP subscriptions. However, some of these companies chose to include interconnected VoIP subscriptions in the number of retail (end-user) switched access lines that they reported.

<sup>3</sup> The presentation of mobile wireless telephone subscriber counts in this report does not constitute, or imply, Commission analysis of the extent to which wireline and mobile wireless telephone services are demand substitutes or complements in general or in any particular situation. In the Form 477 program, commercial mobile radio service (CMRS) carriers who own or operate wireless networks report both their retail telephone service customers and the retail customers of mobile wireless telephone service resellers.

- Over the three-year period presented in Figure 1, interconnected VoIP subscriptions increased at a compound annual growth rate of 17%, mobile telephony subscriptions increased at a compound annual growth rate of about 4%, and retail switched access lines declined at about 9% a year.<sup>4</sup>

**Figure 1**  
**Retail Local Telephone Service Connections, 2009 - 2012**  
**(In Thousands)**



- Of the 138 million wireline retail local telephone service connections (including both switched access lines and interconnected VoIP subscriptions) in December 2012, 79 million (or 57%) were residential connections and 59 million (or 43%) were business connections.<sup>5</sup> See Figure 2.

<sup>4</sup> The compound annual growth rate (CAGR) is a smoothed rate of growth calculated in three steps. First, divide the ending (December 2012) value by the beginning (December 2009) value. Second, raise the result of that division to a power equal to one divided by the number of years in the period (in this case, 3 years, so the power is 1/3). Third, subtract the number one from the result of the second step.

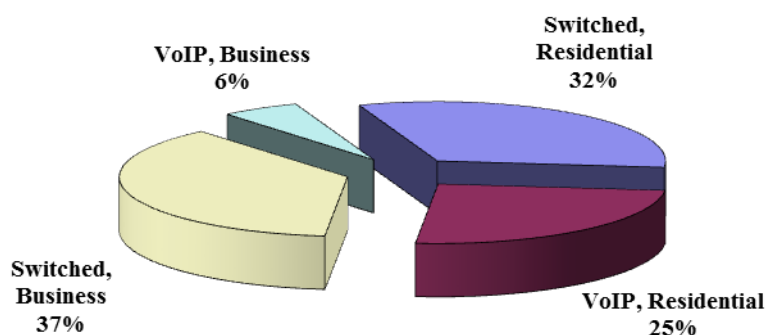
<sup>5</sup> FCC Form 477 does not distinguish between residential and business subscribers to mobile *telephony* service. The information that Form 477 collects about mobile *broadband* service is summarized elsewhere; see *Internet Access Services: Status as of December 31, 2012*, available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html).

- Cross-classified by technology and customer type, the 138 million wireline retail local telephone service connections in December 2012 were: 32% residential switched access lines, 37% business switched access lines, 25% residential interconnected VoIP subscriptions, and 6% business interconnected VoIP subscriptions. See Figure 2.

**Figure 2**  
**Wireline Retail Local Telephone Service Connections by Technology and Customer Type as of December 31, 2012 (In Thousands)**

	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
<b>Residential</b>	44,577	34,315	78,892
<b>Business</b>	51,535	7,646	59,180
<b>Total</b>	<b>96,111</b>	<b>41,961</b>	<b>138,072</b>

Figures may not add to totals due to rounding.



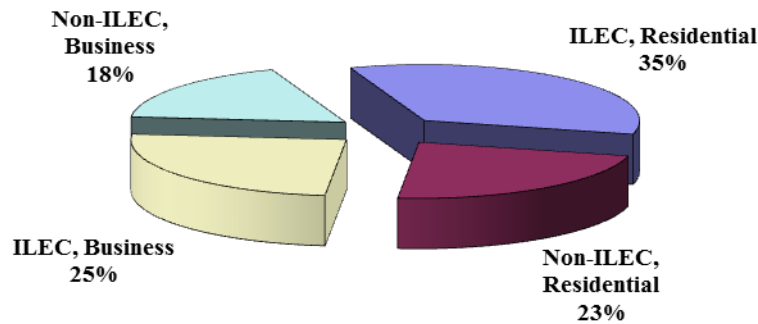
**Service providers.** The Form 477 program – and this report – distinguishes ILEC operations from all other operations.

- Cross-classified by customer type (residential or business) and the service retailer's regulatory status (ILEC or non-ILEC), the 138 million wireline retail local telephone service connections in December 2012 were: 35% ILEC residential service, 25% ILEC business service, 23% non-ILEC residential service, and 18% non-ILEC business service. See Figure 3.

**Figure 3**  
**Wireline Retail Local Telephone Service Connections by Customer Type and**  
**Regulatory Status as of December 31, 2012 (In Thousands)**

	<b>Residential</b>	<b>Business</b>	<b>Total</b>
<b>ILEC</b>	47,640	34,476	82,115
<b>Non-ILEC</b>	31,253	24,704	55,957
<b>Total</b>	<b>78,892</b>	<b>59,180</b>	<b>138,072</b>

Figures may not add to totals due to rounding.

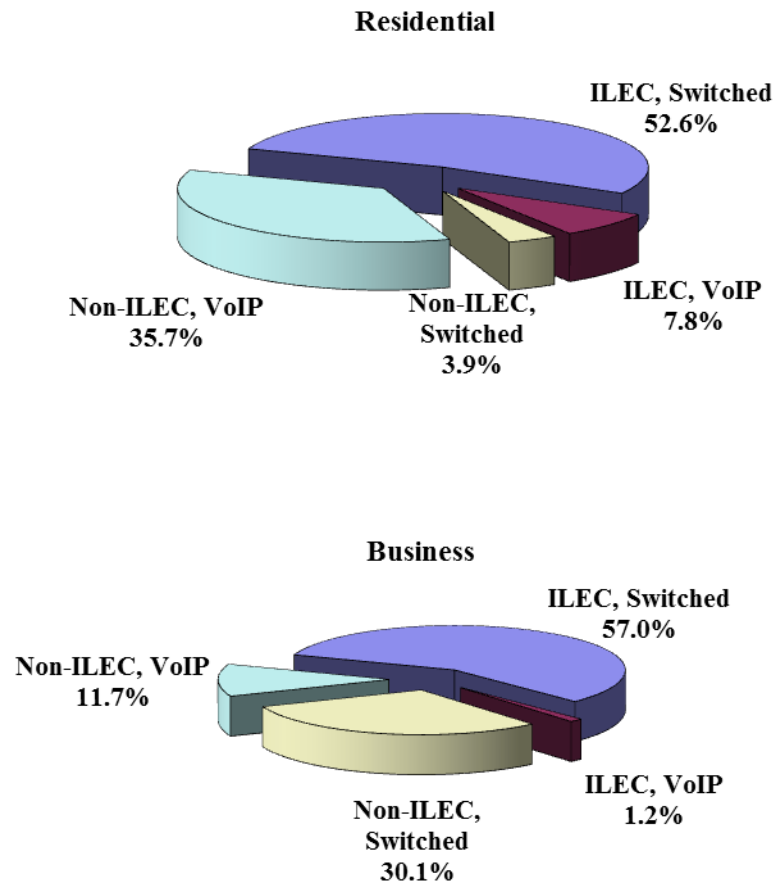


- Additionally cross-classified by technology, the 79 million wireline residential connections in December 2012 were: 52.6% ILEC switched access lines, 35.7% non-ILEC interconnected VoIP subscriptions, 3.9% non-ILEC switched access lines, and 7.8% ILEC interconnected VoIP subscriptions. Similarly, the 59 million wireline business connections were: 57.0% ILEC switched access lines, 30.1% non-ILEC switched access lines, 11.7% non-ILEC interconnected VoIP subscriptions, and 1.2% ILEC interconnected VoIP subscriptions. See Figure 4.

**Figure 4**  
**Wireline Retail Local Telephone Service Connections by Technology, Regulatory Status,**  
**and Customer Type as of December 31, 2012 (In Thousands)**

<b>Total</b>	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
ILEC	75,251	6,864	82,115
Non-ILEC	20,860	35,097	55,957
<b>Total</b>	<b>96,111</b>	<b>41,961</b>	<b>138,072</b>
<b>Residential</b>			
ILEC	41,505	6,134	47,640
Non-ILEC	3,072	28,181	31,253
<b>Residential Total</b>	<b>44,577</b>	<b>34,315</b>	<b>78,892</b>
<b>Business</b>			
ILEC	33,746	730	34,476
Non-ILEC	17,789	6,916	24,704
<b>Business Total</b>	<b>51,535</b>	<b>7,646</b>	<b>59,180</b>

Figures may not add to totals due to rounding.





**Interconnected VoIP service.** Form 477 identifies three types of information about retail interconnected VoIP service.

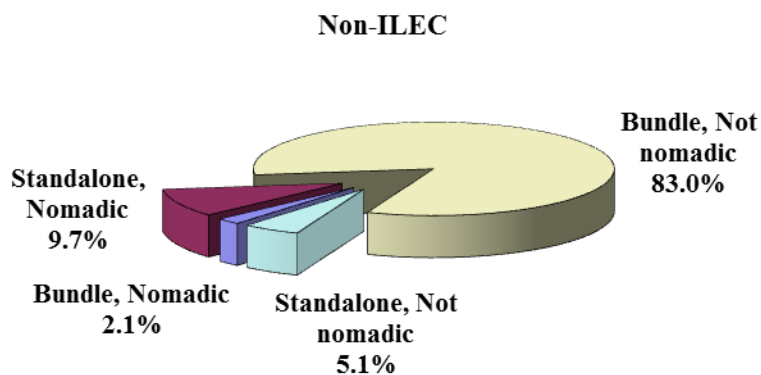
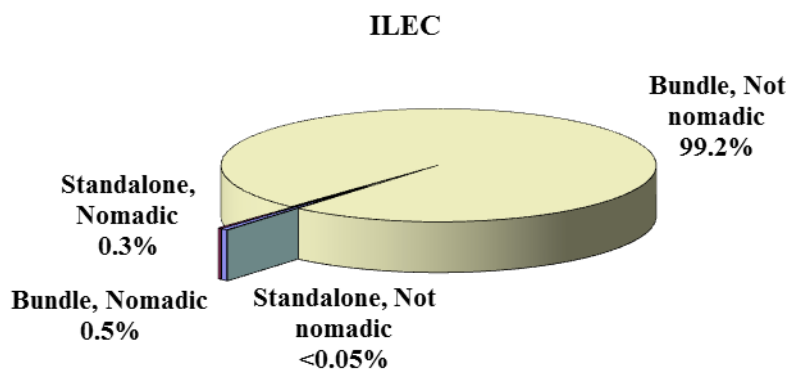
- First, interconnected VoIP service retailers distinguish between the interconnected VoIP subscriptions they sell to their broadband Internet access service customers (“broadband bundle” subscriptions, in this report) and all the other interconnected VoIP subscriptions that they sell (“standalone” subscriptions).
- Second, filers report whether or not interconnected VoIP subscriptions include, as a service feature, the capability to use the service over any broadband connection to which the customer has access, for example, at a hotel or vacation residence (“nomadic” functionality).
- Third, filers identify the different broadband technologies (for example, cable modem Internet access service) in the broadband bundle.

The Form 477 data cross-classify the first two of these three sets of information. See Figure 5.

**Figure 5**  
**Interconnected VoIP Subscription by Reported Service Features**  
**as of December 31, 2012 (In Thousands)**

<b>Total</b>	<b>Broadband Bundle</b>	<b>Standalone VoIP</b>	<b>Total</b>
Nomadic	769	3,432	4,201
Not nomadic	35,956	1,804	37,760
<b>Total</b>	<b>36,725</b>	<b>5,236</b>	<b>41,961</b>
<b>ILEC</b>			
Nomadic	33	18	51
Not nomadic	6,812	2	6,814
<b>ILEC Total</b>	<b>6,845</b>	<b>20</b>	<b>6,864</b>
<b>Non-ILEC</b>			
Nomadic	736	3,414	4,150
Not nomadic	29,144	1,802	30,947
<b>Non-ILEC Total</b>	<b>29,880</b>	<b>5,217</b>	<b>35,097</b>

Figures may not add to totals due to rounding.

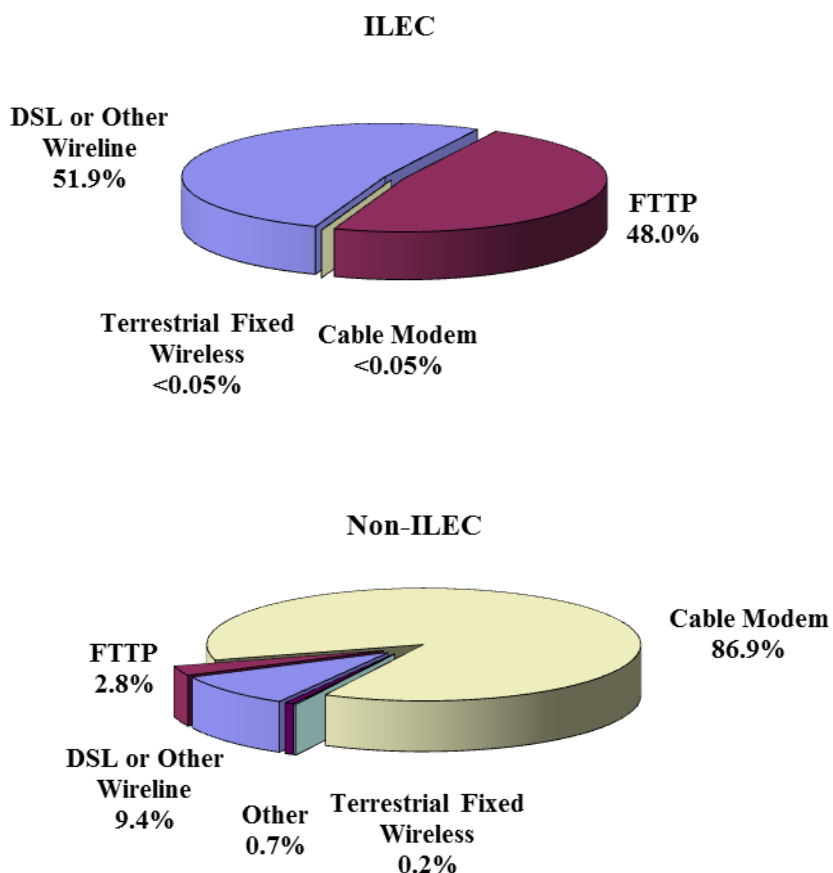


Form 477 collects the third type of information about retail interconnected VoIP service – the technology of the Internet access connection – for broadband bundles but not for standalone interconnected VoIP. See Figure 6.<sup>6</sup>

**Figure 6**  
**Technology of Internet Access Connections in Interconnected VoIP**  
**Broadband Bundles as of December 31, 2012 (In Thousands)**

Technology	ILEC	Non-ILEC	Total
DSL or Other Wireline	3,556	2,822	6,378
FTTP	3,288	832	4,119
Cable Modem	1	25,968	25,969
Terrestrial Fixed Wireless	#	49	49
Other	0	210	210
Total	6,845	29,880	36,725

# = Rounds to zero. Figures may not add to totals due to rounding.



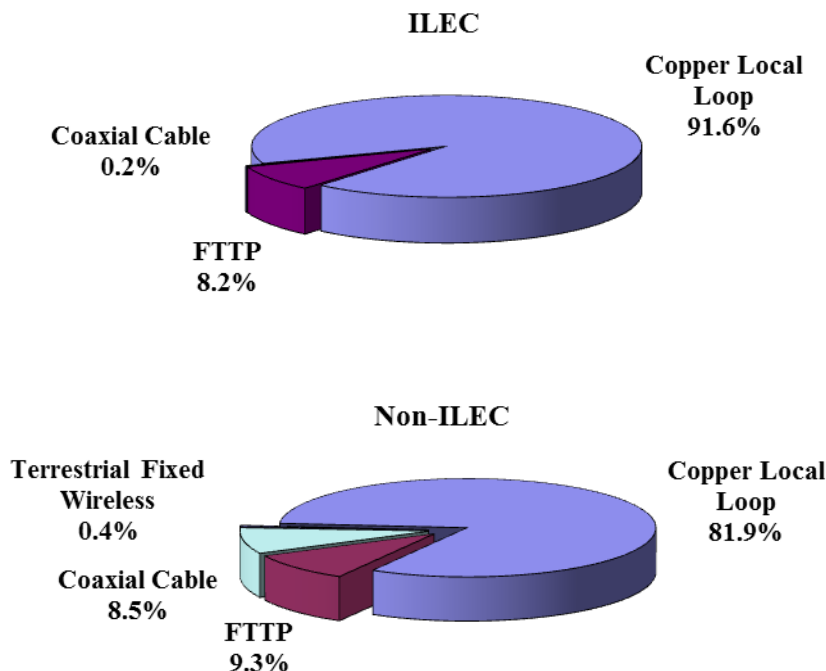
<sup>6</sup> *Internet Access Services: Status as of December 31, 2012* discusses types of Internet access connections in greater detail. The report is available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html).

**Switched access lines.** ILECs as a group predominantly deliver retail switched access lines over copper local loops. This appears also to be the case for those non-ILECs who report retail switched access lines. See Figure 7.

**Figure 7**  
**Technology of Retail Switched Access Lines**  
**as of December 31, 2012 (In Thousands)**

<b>Technology</b>	<b>ILEC</b>	<b>Non-ILEC</b>	<b>Total</b>
FTTP	6,149	1,936	8,084
Coaxial Cable	176	1,765	1,941
Terrestrial Fixed Wireless	15	76	90
Copper Local Loop	68,912	17,083	85,995
<b>Total</b>	<b>75,251</b>	<b>20,860</b>	<b>96,111</b>

Figures may not add to totals due to rounding.



**Wholesale relationships for switched access lines.** ILECs typically own the communications facilities over which they provide retail services. By contrast, CLECs use a range of methods: equipping ILEC UNE loops (“UNE-L”) as CLEC switched access lines,<sup>7</sup> reselling services (for example, reselling ILEC

<sup>7</sup> CLECs (as opposed to non-ILECs more generally) have certain regulatory rights to obtain ILEC local loops at cost-based UNE rates, which the CLEC may use to provide retail switched access lines or retail broadband Internet access connections. See C.F.R. § 51.307.

switched access lines obtained at wholesale rates or reselling ILEC lines obtained under commercial agreements that replaced the UNE-Platform (“UNE-P”)), equipping leased ILEC special access circuits as switched access lines, and equipping local loops that the CLEC owns.

- CLECs reported using several methods to provide their nearly 21 million retail switched access lines in December 2012. They reported providing 37% of lines (or 7.7 million lines) by reselling ILEC wholesale or retail services. They reported providing 33% of lines (or 6.9 million lines) over ILEC facilities leased at regulated, cost-based rates (that is, as unbundled network elements, or UNEs). And they provided the remaining 30% of lines (or 6.3 million lines) over local loops that they owned. However, the information about wholesale relationships differs as reported by CLECs and by ILECs, as discussed in Figure 8.

**Figure 8**  
**Wholesale Relationships as Reported Respectively by CLECs and ILECs**  
**as of December 31, 2012 (In Thousands)**

	<b>CLEC</b>	<b>ILEC</b>	<b>Difference</b>
	<b>Retail Switched Access Lines provisioned over ILEC Services (reported by CLECs)</b>	<b>Wholesale Switched Access Lines and UNEs provided to CLECs (reported by ILECs)</b>	
<b>Resold ILEC services<sup>1</sup></b>	7,682	4,038	3,643
<b>UNE-P<sup>2</sup></b>	935	1	934
<b>UNE-L<sup>3</sup></b>	5,946	2,913	3,033
Total ILEC UNEs	6,881	2,914	3,967
Total ILEC services	14,563	6,953	7,610

Figures may not add to totals due to rounding.

<sup>1</sup> Resold ILEC services include switched access lines made available to CLECs at wholesale rates, resold Centrex, Integrated Services Digital Network (ISDN), or other ILEC services, ILEC special access circuits channelized to provide CLEC retail switched access lines, and ILEC switched access lines provided to CLECs under commercial agreements that replaced UNE-P. (See note 2, below.) Filers are instructed to count the number of voice-grade channels the retail customer purchased, not the theoretical capacity of the circuit over which the service was delivered. ILECs generally do not know (and do not report) which ILEC leased special access circuits or other high-capacity circuits are being used to provide CLEC retail switched access lines (which the CLECs do report).

<sup>2</sup> UNE-P was the combination of ILEC loop UNE, switching UNE, and transport UNE. The Commission directed CLECs to migrate their retail customers served by UNE-P to an alternative arrangement within 12 months of the effective date of the *Triennial Review Remand Order*, that is, by March 11, 2006. See C.F.R. § 51.319(d)(2)(ii).

<sup>3</sup> ILECs report the number of UNE-L they provide to CLECs but do not convert any high-capacity UNE-L, such as DS1 UNE loops, into voice-grade equivalents. By contrast, CLECs report the number of switched access lines their retail customers purchase which the CLEC provisioned over UNE-L obtained from ILECs. Note, however, that a CLEC might use UNE-L only to provide broadband Internet access connections.

**Remainder of the report.** The remainder of the report consists of tables and charts that update data presented in earlier reports in this series. We present national data first, followed by state-specific data and, finally, summary statistics of service-provider presence in individual ZIP Codes.<sup>8</sup>

\* \* \* \*

We invite users of this information to provide suggestions for improved analysis of data presented in this report by using the attached customer response form or by sending comments to [IATDreports@fcc.gov](mailto:IATDreports@fcc.gov) for subject: December 2012 local telephone data. We encourage users of this information to provide suggestions for improved data collection by participating in any formal proceedings undertaken by the Commission to solicit comments for improvement of FCC Form 477.

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<sup>8</sup> The appropriate interpretation of the ZIP Code-based information is discussed in the Technical Notes at the end of the report.

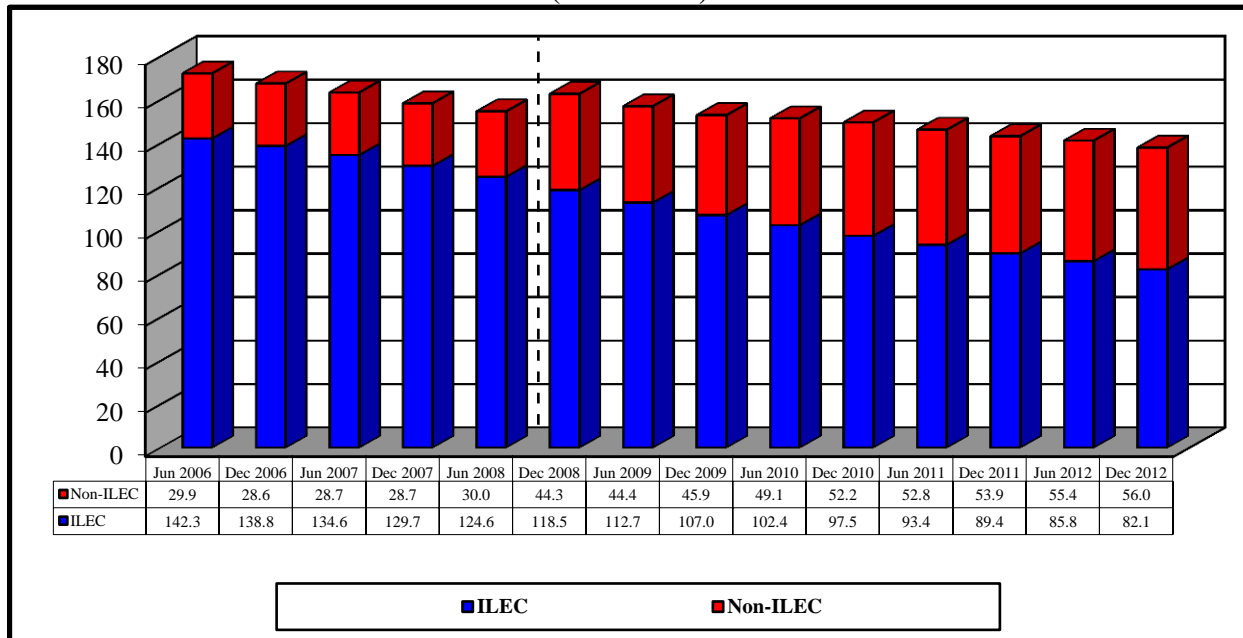
**Table 1**  
**Total End-User Switched Access Lines and VoIP Subscriptions<sup>1</sup>**  
**(In Thousands)**

Date	Provided by		Total	Non-ILEC Share
	ILEC	Non-ILEC		
Jun 2006	142,293	29,896	172,189	17.4
Dec 2006	138,834	28,626	167,460	17.1
Jun 2007	134,640	28,729	163,369	17.6
Dec 2007	129,693	28,725	158,418	18.1
Jun 2008	124,606	30,049	154,655	19.4
Dec 2008	118,496	44,267	162,763	27.2
Jun 2009	112,748	44,351	157,098	28.2
Dec 2009	107,018	45,927	152,945	30.0
Jun 2010	102,395	49,077	151,472	32.4
Dec 2010	97,497	52,155	149,652	34.9
Jun 2011	93,394	52,820	146,214	36.1
Dec 2011	89,428	53,891	143,319	37.6
Jun 2012	85,849	55,419	141,268	39.2
Dec 2012	82,115	55,957	138,072	40.5

Some previously published data have been revised.

<sup>1</sup> Mandatory reporting by interconnected VoIP service providers started in December 2008. Previously, individual ILECs and CLECs included VoIP subscribers in reported switched access lines to a varying and largely unknown degree. Interconnected VoIP is distinguished from VoIP service more generally by permitting users to receive calls that originate on the public switched telephone network *and* to terminate calls to the public switched telephone network. See 47 C.F.R. § 9.3. Form 477 counts both switched access lines and interconnected VoIP subscriptions as the maximum number of calls that may be active, simultaneously, from the end user's location under the purchased service plan.

**Chart 1**  
**Total End-User Switched Access Lines and VoIP Subscriptions**  
**(In Millions)**



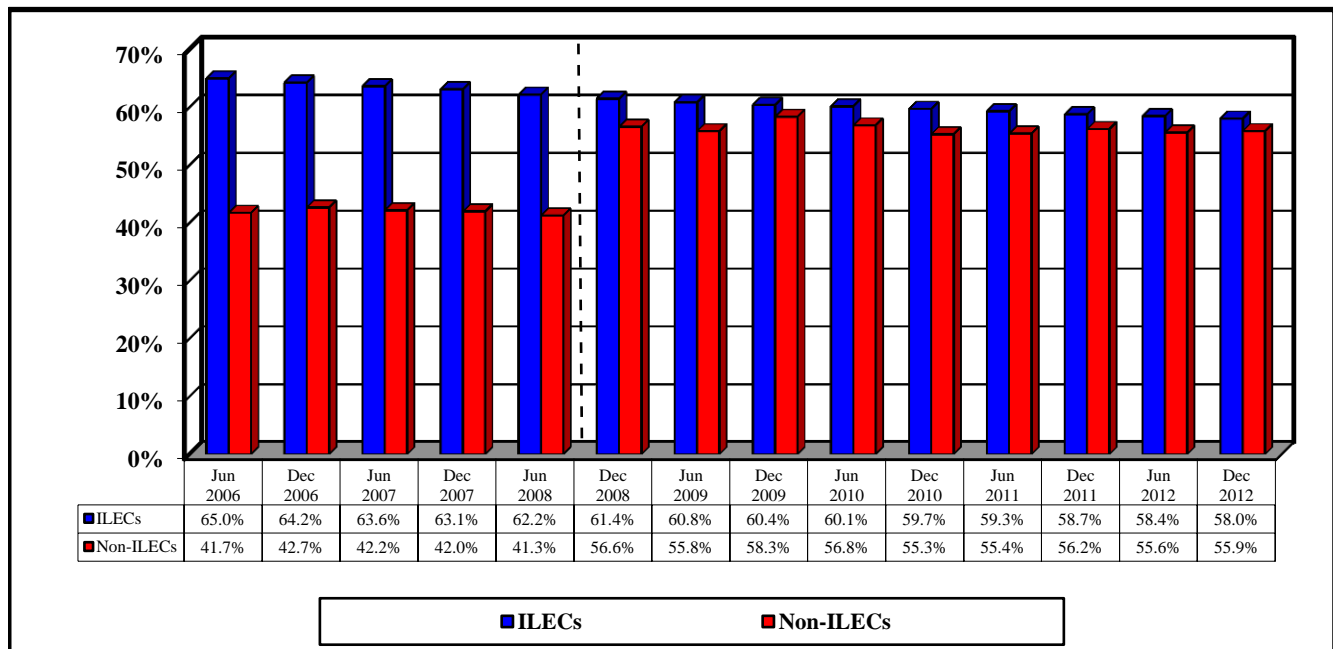
**Table 2**  
**Total End-User Switched Access Lines and VoIP Subscriptions by Customer Type<sup>1</sup>**  
**(In Thousands)**

Date	Reporting ILECs			Reporting Non-ILECs		
	Residential	Business	% Residential	Residential	Business	% Residential
Jun 2006	92,453	49,840	65.0	12,474	17,422	41.7
Dec 2006	89,167	49,667	64.2	12,211	16,415	42.7
Jun 2007	85,633	49,007	63.6	12,117	16,612	42.2
Dec 2007	81,798	47,894	63.1	12,051	16,675	42.0
Jun 2008	77,457	47,149	62.2	12,396	17,654	41.3
Dec 2008	72,786	45,711	61.4	25,049	19,218	56.6
Jun 2009	68,581	44,166	60.8	24,769	19,582	55.8
Dec 2009	64,613	42,405	60.4	26,793	19,134	58.3
Jun 2010	61,579	40,816	60.1	27,899	21,178	56.8
Dec 2010	58,194	39,303	59.7	28,851	23,304	55.3
Jun 2011	55,365	38,029	59.3	29,272	23,548	55.4
Dec 2011	52,530	36,897	58.7	30,285	23,607	56.2
Jun 2012	50,165	35,684	58.4	30,805	24,614	55.6
Dec 2012	47,640	34,476	58.0	31,253	24,704	55.9

Some previously published data have been revised.

<sup>1</sup> The December 2008 data are the first for which comprehensive reporting of interconnected VoIP subscribers was required. See footnote 1, Table 1.

**Chart 2**  
**Percent of Total Lines and VoIP Subscriptions that Serve Residential Customers<sup>1</sup>**



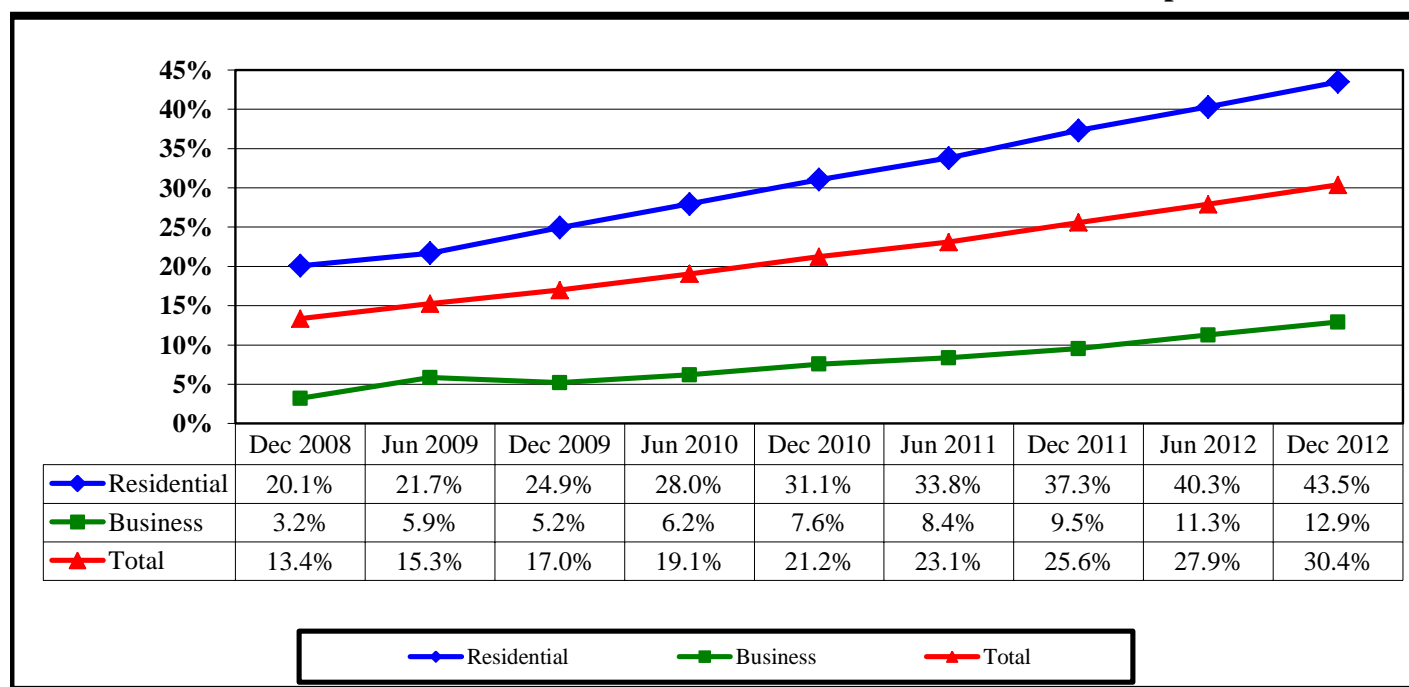


**Table 3**  
**End-User Switched Access Lines and VoIP Subscriptions by Customer Type**  
**(In Thousands)**

Date	End-User Switched Access Lines			VoIP Subscriptions			Total		
	Residential	Business	Total	Residential	Business	Total	Residential	Business	Total
Dec 2008	78,180	62,839	141,019	19,655	2,090	21,744	97,835	64,929	162,763
Jun 2009	73,093	60,015	133,109	20,257	3,733	23,990	93,350	63,748	157,098
Dec 2009	68,614	58,335	126,949	22,793	3,204	25,996	91,406	61,539	152,945
Jun 2010	64,463	58,152	122,615	25,015	3,842	28,857	89,478	61,994	151,472
Dec 2010	60,010	57,874	117,884	27,036	4,733	31,768	87,045	62,607	149,652
Jun 2011	56,019	56,428	112,447	28,617	5,150	33,767	84,637	61,577	146,214
Dec 2011	51,920	54,729	106,649	30,895	5,775	36,670	82,815	60,504	143,319
Jun 2012	48,337	53,495	101,832	32,633	6,802	39,435	80,970	60,298	141,268
Dec 2012	44,577	51,535	96,111	34,315	7,646	41,961	78,892	59,180	138,072

Some previously published data have been revised. Figures may not sum to totals due to rounding.

**Chart 3**  
**VoIP Share of Total End-User Switched Access Lines and VoIP Subscriptions**



**Table 4**  
**End-User Switched Access Lines and VoIP Subscriptions Reported by Non-ILECs<sup>1</sup>**  
**(Lines and Subscriptions in Thousands)**

Date	Reporting Non-ILECs	End-User Switched Access Lines and VoIP Subscriptions	End-User Switched Access Lines			VoIP	Percent			
			Acquired from other LECs		CLEC-owned local loops <sup>3</sup>		Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP
			Resold LEC service	ILEC UNEs <sup>2</sup>						
Jun 2006	400	29,896	6,548	12,547	10,802	-	21.9	42.0	36.1	-
Dec 2006	397	28,626	5,819	11,663	11,144	-	20.3	40.7	38.9	-
Jun 2007	406	28,729	6,193	11,511	11,025	-	21.6	40.1	38.4	-
Dec 2007	443	28,725	6,430	10,582	11,713	-	22.4	36.8	40.8	-
Jun 2008	469	30,049	6,073	10,884	13,093	-	20.2	36.2	43.6	-
Dec 2008	705	44,267	7,083	9,612	6,359	21,216	16.0	21.7	14.4	47.9
Jun 2009	720	44,351	6,799	8,516	6,005	23,032	15.3	19.2	13.5	51.9
Dec 2009	758	45,927	7,100	8,029	5,993	24,802	15.5	17.5	13.0	54.0
Jun 2010	787	49,077	8,249	7,701	6,231	26,895	16.8	15.7	12.7	54.8
Dec 2010	809	52,155	8,634	7,313	7,294	28,912	16.6	14.0	14.0	55.4
Jun 2011	834	52,820	8,492	6,950	7,242	30,136	16.1	13.2	13.7	57.1
Dec 2011	872	53,891	8,201	6,769	6,937	31,978	15.2	12.6	12.9	59.3
Jun 2012	875	55,419	8,138	6,654	7,007	33,623	14.7	12.0	12.6	60.7
Dec 2012	913	55,957	7,682	6,881	6,296	35,097	13.7	12.3	11.3	62.7

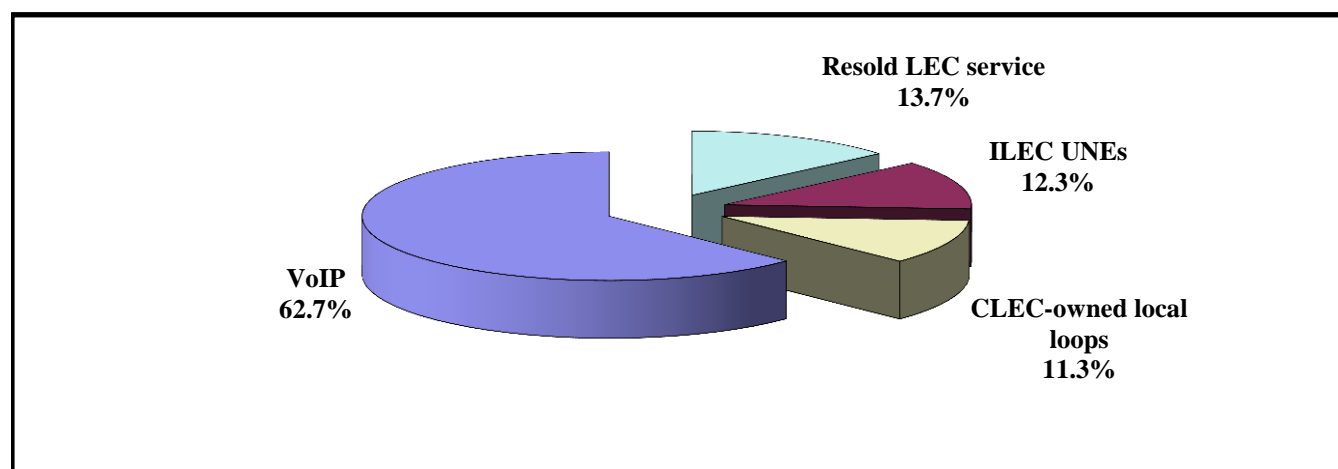
Some previously published data have been revised. Figures may not sum to totals due to rounding.

<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> Includes unbundled network element (UNE) loops leased from an unaffiliated ILEC on a stand-alone basis and also UNE loops leased in combination with UNE switching or any other unbundled network element.

<sup>3</sup> Lines provided over CLEC-owned "last-mile" facilities.

**Chart 4**  
**Non-ILEC End-User Switched Access Lines and VoIP Subscriptions as of December 31, 2012**



**Table 5**  
**ILEC End-User (Retail) and Wholesale Switched Access Lines, VoIP Subscriptions, and UNEs<sup>1</sup>**  
**(Lines, Subscriptions, and UNEs in Thousands)**

Date	Reporting ILECs <sup>2</sup>	ILEC Total Lines <sup>3</sup>	End-User Switched Access Lines	VoIP	Switched Access Lines and UNEs Provided to CLECs					
					Resold Lines	UNEs			Total UNEs & Resold Lines	% of Total Lines
						Without Switching	With Switching <sup>4</sup>	Total UNEs		
Jun 2006	805	156,872	142,293	-	1,723	4,413	8,443	12,856	14,579	9.3
Dec 2006	814	151,958	138,834	-	1,613	4,408	7,103	11,511	13,124	8.6
Jun 2007	816	146,672	134,640	-	1,517	4,285	6,230	10,515	12,032	8.2
Dec 2007	805	140,808	129,693	-	1,460	4,122	5,534	9,655	11,115	7.9
Jun 2008	800	134,846	124,606	-	1,473	3,827	4,941	8,768	10,241	7.6
Dec 2008	777	128,288	117,968	529	3,209	3,844	2,740	6,583	9,792	7.6
Jun 2009	777	121,879	111,790	958	3,008	3,580	2,543	6,123	9,131	7.5
Dec 2009	766	116,070	105,824	1,194	2,988	3,668	2,396	6,063	9,051	7.8
Jun 2010	763	110,798	100,433	1,962	5,023	3,254	127	3,381	8,403	7.6
Dec 2010	754	105,386	94,641	2,856	4,712	3,124	53	3,177	7,889	7.5
Jun 2011	756	101,056	89,763	3,631	4,578	3,081	4	3,085	7,662	7.6
Dec 2011	756	96,890	84,735	4,693	4,366	3,028	68	3,097	7,463	7.7
Jun 2012	756	93,033	80,036	5,813	4,059	3,005	121	3,126	7,185	7.7
Dec 2012	753	89,068	75,251	6,864	4,038	2,913	1	2,914	6,953	7.8

Some previously published data have been revised.

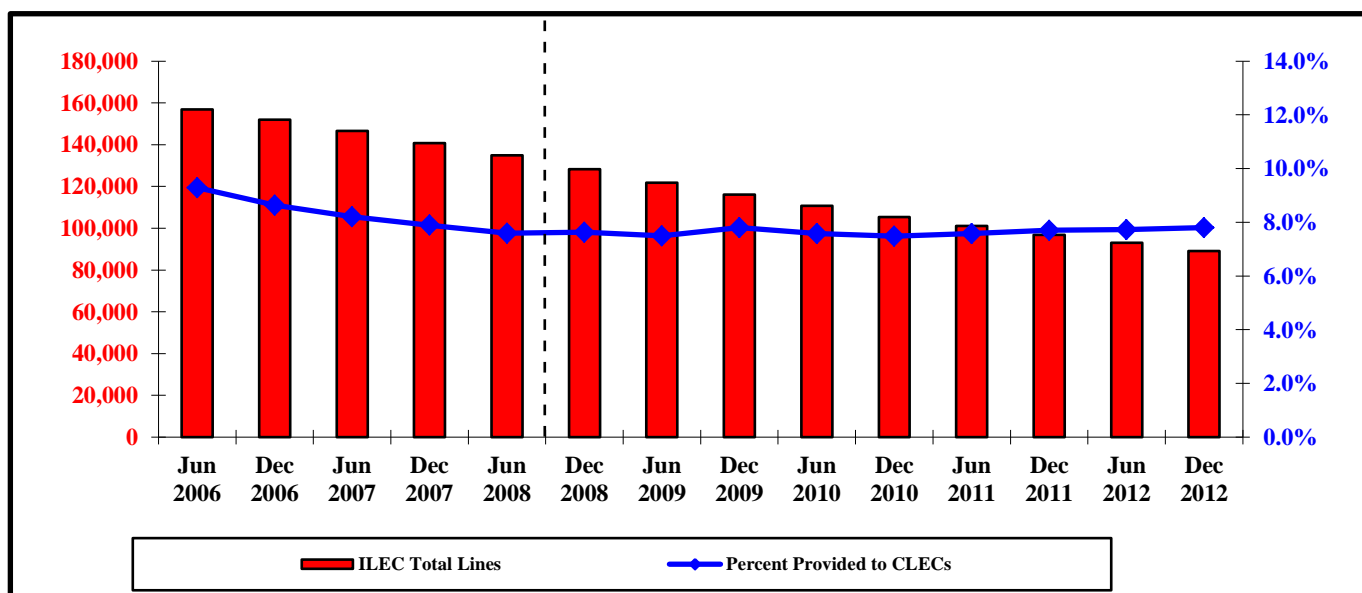
<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> Fewer ILECs were counted after mid-year 2007 primarily because FCC staff identified additional common-control relationships.

<sup>3</sup> Sum of ILEC-reported end-user (retail) switched access lines, ILEC interconnected VoIP subscriptions, and ILEC wholesale switched access lines and UNEs provided to CLECs.

<sup>4</sup> ILEC loops provided with ILEC switching, including the combination of ILEC loop UNE, switching UNE, and transport UNE, collectively referred to as the UNE-Platform ("UNE-P"). In the *Triennial Review Remand Order*, which was adopted on December 15, 2004, the Commission directed CLECs to migrate their retail customers served by these methods to alternative arrangements by March 11, 2006, i.e., within 12 months of the date the order went into effect. See C.F.R. § 51.319(d)(2)(ii).

**Chart 5**  
**ILEC Total (Retail and Wholesale) Lines and the Percent Provided to CLECs for Resale**



**Table 6**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**by Type of Technology for Non-ILEC Providers<sup>1</sup>**  
**(In Thousands)**

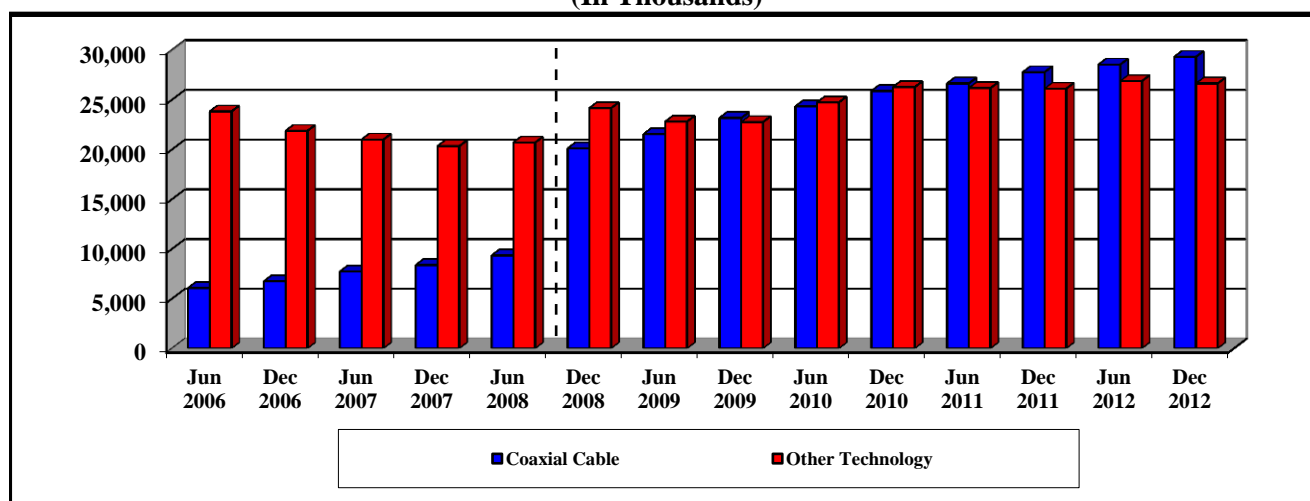
Date	Coaxial Cable <sup>2</sup>	Other Technology	Total	Percent Coaxial Cable
Jun 2006	6,070	23,826	29,896	20.3
Dec 2006	6,751	21,875	28,626	23.6
Jun 2007	7,730	21,000	28,729	26.9
Dec 2007	8,385	20,340	28,725	29.2
Jun 2008	9,352	20,697	30,049	31.1
Dec 2008	20,108	24,158	44,267	45.4
Jun 2009	21,547	22,804	44,351	48.6
Dec 2009	23,171	22,756	45,927	50.5
Jun 2010	24,339	24,738	49,077	49.6
Dec 2010	25,877	26,278	52,155	49.6
Jun 2011	26,645	26,175	52,820	50.4
Dec 2011	27,776	26,115	53,891	51.5
Jun 2012	28,541	26,878	55,419	51.5
Dec 2012	29,318	26,639	55,957	52.4

Some previously published data have been revised.

<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> Reported end-user switched access lines and interconnected VoIP connections that terminate on coaxial cable at the end user's premises. Starting, systematically, with the December 2008 data, interconnected VoIP service providers report subscriptions they sold in a bundle with cable modem Internet access service. For December 2008 and later dates, FCC staff used other Form 477 data to estimate the number of standalone VoIP subscriptions that terminated on coaxial cable at the end user's premises.

**Chart 6**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**by Type of Technology for Non-ILEC Providers**  
**(In Thousands)**

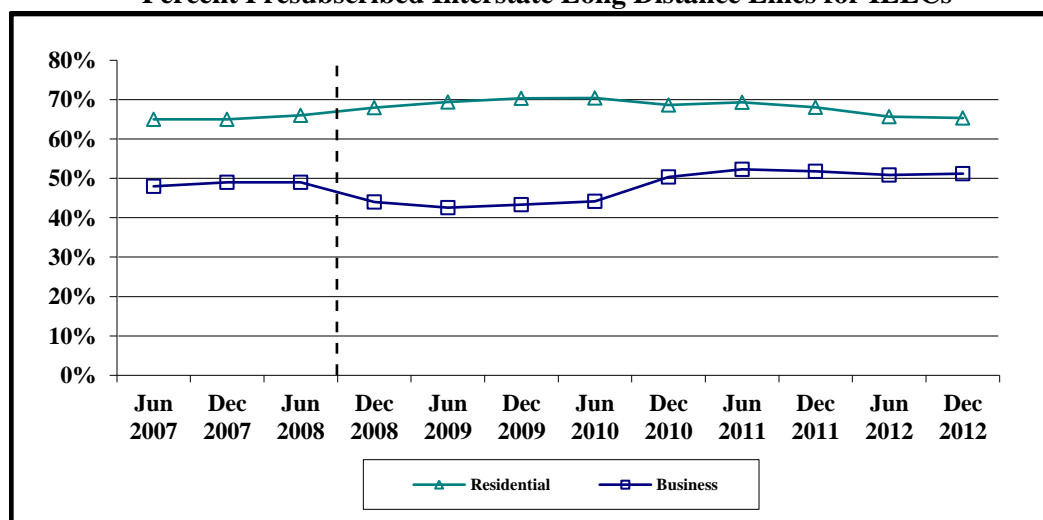


**Table 7**  
**Percentage of Switched Access Lines Presubscribed for Long Distance Service**

	ILEC	CLEC	Total
<b>Residential</b>			
Jun 2007	65	86	68
Dec 2007	65	87	68
Jun 2008	66	88	69
Dec 2008	68	80	69
Jun 2009	69	80	70
Dec 2009	70	76	71
Jun 2010	70	76	71
Dec 2010	69	77	69
Jun 2011	69	78	70
Dec 2011	68	78	69
Jun 2012	66	76	66
Dec 2012	65	78	66
<b>Business</b>			
Jun 2007	48	72	54
Dec 2007	49	70	54
Jun 2008	49	72	55
Dec 2008	44	70	51
Jun 2009	43	72	51
Dec 2009	43	71	51
Jun 2010	44	73	53
Dec 2010	50	76	59
Jun 2011	52	80	62
Dec 2011	52	75	59
Jun 2012	51	74	59
Dec 2012	51	74	59
<b>Total</b>			
Jun 2007	59	78	62
Dec 2007	59	77	63
Jun 2008	59	79	63
Dec 2008	59	73	61
Jun 2009	59	74	61
Dec 2009	60	72	62
Jun 2010	60	74	62
Dec 2010	61	76	64
Jun 2011	62	80	66
Dec 2011	61	75	64
Jun 2012	59	75	62
Dec 2012	59	74	62

Some previously published data have been revised.

**Chart 7**  
**Percent Presubscribed Interstate Long Distance Lines for ILECs**



**Table 8**  
**Residential and Business Presubscribed Switched Access Lines**  
(In Thousands)

	December 31, 2012		
	ILEC	CLEC	Total
<b>Residential</b>			
Presubscribed	27,127	2,388	29,515
Not Presubscribed	14,378	684	15,062
All Lines	41,505	3,072	44,577
Percent Presubscribed	65%	78%	66%
<b>Business</b>			
Presubscribed	17,281	13,090	30,372
Not Presubscribed	16,464	4,698	21,163
All Lines	33,746	17,789	51,534
Percent Presubscribed	51%	74%	59%
<b>Total</b>			
Presubscribed	44,408	15,478	59,886
Not Presubscribed	30,843	5,382	36,225
All Lines	75,251	20,860	96,111
Percent Presubscribed	59%	74%	62%
	June 30, 2012		
	ILEC Total	CLEC	Total
<b>Residential</b>			
Presubscribed	29,517	2,591	32,107
Not Presubscribed	15,429	801	16,230
All Lines	44,946	3,391	48,337
Percent Presubscribed	66%	76%	66%
<b>Business</b>			
Presubscribed	17,858	13,667	31,525
Not Presubscribed	17,232	4,738	21,970
All Lines	35,090	18,405	53,495
Percent Presubscribed	51%	74%	59%
<b>Total</b>			
Presubscribed	47,374	16,258	63,632
Not Presubscribed	32,661	5,539	38,200
All Lines	80,036	21,796	101,832
Percent Presubscribed	59%	75%	62%

Some previously published data have been revised. Figures may not sum to totals due to rounding.

**Table 9**  
**Total End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 2012**  
**(In Thousands)**

State	ILECs				Non-ILECs				Total	Non-ILEC % of Total
	Switched Access Lines	VoIP purchased as		Total	Switched Access Lines	VoIP purchased as		Total		
		Stand- alone	Bundled with Internet			Stand- alone	Bundled with Internet			
Alabama	1,133	0	68	1,201	334	61	277	673	1,874	36
Alaska	228	0	#	228	*	2	1	*	*	*
American Samoa	9	0	0	9	0	0	0	0	9	0
Arizona	1,224	0	1	1,224	553	119	606	1,278	2,503	51
Arkansas	696	0	30	725	107	24	135	266	991	27
California	10,153	2	912	11,067	2,118	759	3,240	6,117	17,184	36
Colorado	1,207	0	0	1,207	369	100	594	1,063	2,271	47
Connecticut	930	#	130	1,060	190	69	581	840	1,900	44
Delaware	225	#	53	279	52	20	111	183	462	40
District of Columbia	543	#	18	561	233	25	105	362	924	39
Florida	4,170	2	570	4,743	1,410	477	2,165	4,052	8,795	46
Georgia	2,266	#	189	2,455	779	176	694	1,649	4,104	40
Guam	40	0	0	40	*	*	*	*	*	*
Hawaii	390	#	6	397	48	8	104	159	556	29
Idaho	375	0	0	375	71	20	77	168	544	31
Illinois	3,196	0	310	3,507	609	237	1,188	2,033	5,540	37
Indiana	1,566	2	109	1,677	214	82	478	773	2,451	32
Iowa	817	#	#	817	169	30	172	372	1,190	31
Kansas	602	0	36	638	187	38	212	437	1,075	41
Kentucky	1,087	0	24	1,111	218	25	267	510	1,621	31
Louisiana	1,079	#	68	1,147	271	61	337	669	1,816	37
Maine	367	0	#	367	139	13	146	298	666	45
Maryland	1,605	2	386	1,993	454	128	541	1,123	3,117	36
Massachusetts	1,513	1	283	1,797	818	157	1,021	1,996	3,793	53
Michigan	2,028	0	212	2,240	352	196	1,056	1,604	3,844	42
Minnesota	1,348	#	2	1,350	458	67	580	1,105	2,455	45
Mississippi	658	#	31	690	82	27	118	228	917	25
Missouri	1,559	0	152	1,711	236	61	331	629	2,340	27
Montana	282	0	#	282	42	7	101	151	433	35
Nebraska	443	0	0	443	193	24	134	351	794	44
Nevada	632	0	15	646	126	66	320	512	1,158	44
New Hampshire	278	0	1	279	109	39	248	396	675	59
New Jersey	2,018	2	476	2,496	820	198	1,567	2,585	5,081	51
New Mexico	523	0	0	523	64	21	110	195	717	27
New York	4,108	4	712	4,824	1,776	265	3,208	5,250	10,074	52
North Carolina	2,390	#	84	2,474	702	125	880	1,706	4,181	41
North Dakota	201	0	0	201	80	3	38	122	323	38
Northern Mariana Isl.	15	0	0	15	0	0	0	0	15	0
Ohio	2,791	0	165	2,957	505	109	1,032	1,646	4,602	36
Oklahoma	832	0	37	869	253	53	299	604	1,473	41
Oregon	833	0	0	833	230	67	401	699	1,532	46
Pennsylvania	3,370	2	423	3,796	1,337	251	1,287	2,875	6,671	43
Puerto Rico	583	0	0	583	105	18	115	239	822	29
Rhode Island	179	#	62	240	189	27	97	312	553	57
South Carolina	1,119	0	64	1,183	291	65	312	667	1,850	36
South Dakota	197	0	#	197	135	5	72	211	408	52
Tennessee	1,413	0	99	1,512	570	89	507	1,165	2,677	44
Texas	5,493	1	666	6,159	1,065	329	1,409	2,804	8,963	31
Utah	502	0	0	502	151	43	291	485	988	49
Vermont	218	0	#	218	42	12	74	129	346	37
Virgin Islands	49	0	0	49	0	*	*	*	*	*
Virginia	2,080	1	351	2,432	708	184	678	1,570	4,002	39
Washington	1,491	#	1	1,492	370	138	825	1,334	2,826	47
West Virginia	559	0	0	559	104	16	169	289	849	34
Wisconsin	1,492	#	97	1,589	277	76	486	840	2,429	35
Wyoming	145	0	1	146	17	5	64	86	232	37
Nationwide	75,251	20	6,845	82,115	20,860	5,217	29,880	55,957	138,072	41

# = Rounds to zero. \* = Data withheld to maintain firm confidentiality.

**Table 10**  
**Residential End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 2012**  
**(In Thousands)**

State	ILECs				Non-ILECs				Total	Non-ILEC % of Total
	Switched Access Lines	VoIP purchased as		Total	Switched Access Lines	VoIP purchased as		Total		
		Stand- alone	Bundled with Internet			Stand- alone	Bundled with Internet			
Alabama	705	0	62	768	71	52	228	351	1,119	31
Alaska	109	0	0	109	*	1	1	*	*	*
American Samoa	4	0	0	4	0	0	0	0	4	0
Arizona	703	0	0	703	252	80	374	705	1,408	50
Arkansas	414	0	27	441	12	18	103	133	574	23
California	5,169	2	785	5,955	416	487	2,336	3,238	9,194	35
Colorado	719	0	0	719	20	71	470	561	1,280	44
Connecticut	482	#	118	600	37	52	513	602	1,202	50
Delaware	112	#	51	163	3	17	105	125	288	43
District of Columbia	96	#	12	108	11	11	43	65	173	38
Florida	2,336	2	522	2,860	43	374	1,909	2,326	5,186	45
Georgia	1,235	#	161	1,396	75	138	570	783	2,179	36
Guam	22	0	0	22	*	*	*	*	*	*
Hawaii	205	0	0	205	#	6	84	91	296	31
Idaho	225	0	0	225	18	9	52	79	305	26
Illinois	1,566	0	257	1,823	54	187	999	1,240	3,063	40
Indiana	882	0	101	982	47	63	420	530	1,512	35
Iowa	520	#	#	520	64	24	108	196	717	27
Kansas	331	0	32	363	74	25	144	243	605	40
Kentucky	663	0	20	683	60	18	236	314	996	31
Louisiana	616	#	59	674	68	48	252	368	1,042	35
Maine	260	0	0	260	9	10	131	150	410	37
Maryland	745	2	371	1,118	97	90	433	620	1,738	36
Massachusetts	740	1	272	1,012	46	124	960	1,130	2,142	53
Michigan	1,020	0	180	1,200	71	168	957	1,196	2,396	50
Minnesota	904	#	#	904	87	53	379	519	1,423	36
Mississippi	378	0	27	405	19	22	104	146	550	26
Missouri	927	0	129	1,056	25	47	258	330	1,386	24
Montana	176	0	#	176	13	4	72	89	265	33
Nebraska	246	0	0	246	83	15	83	180	427	42
Nevada	358	0	13	371	2	47	242	292	663	44
New Hampshire	180	0	0	180	3	32	235	270	449	60
New Jersey	962	2	446	1,411	53	149	1,351	1,554	2,965	52
New Mexico	332	0	0	332	7	15	81	103	436	24
New York	2,134	4	657	2,795	163	158	2,655	2,976	5,771	52
North Carolina	1,437	#	74	1,511	23	96	759	878	2,389	37
North Dakota	130	0	0	130	40	2	7	50	179	28
Northern Mariana Isl.	7	0	0	7	0	0	0	0	7	0
Ohio	1,600	0	138	1,738	57	72	888	1,017	2,756	37
Oklahoma	478	0	33	511	118	33	213	365	876	42
Oregon	525	0	0	525	19	49	346	414	938	44
Pennsylvania	2,071	2	388	2,461	108	202	1,183	1,492	3,954	38
Puerto Rico	430	0	0	430	1	12	93	106	536	20
Rhode Island	101	#	61	162	68	17	66	152	314	48
South Carolina	693	0	54	747	56	41	263	359	1,107	32
South Dakota	122	0	#	122	73	4	64	141	263	54
Tennessee	855	0	86	941	59	74	431	564	1,505	37
Texas	2,829	1	574	3,403	107	236	1,121	1,465	4,868	30
Utah	293	0	0	293	17	27	171	215	508	42
Vermont	151	0	0	151	4	10	70	85	236	36
Virgin Islands	31	0	0	31	0	*	*	*	*	*
Virginia	1,109	1	326	1,436	144	125	456	725	2,162	34
Washington	910	#	#	911	42	103	730	875	1,786	49
West Virginia	369	0	0	369	18	13	154	184	554	33
Wisconsin	818	0	79	897	41	58	424	522	1,419	37
Wyoming	69	0	1	70	4	3	46	53	123	43
Nationwide	41,505	18	6,116	47,640	3,072	3,791	24,390	31,253	78,892	40

# = Rounds to zero. \* = Data withheld to maintain firm confidentiality.



**Table 11**  
**Business End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 2012**  
**(In Thousands)**

State	ILECs				Non-ILECs				Total	Non-ILEC % of Total
	Switched Access Lines	VoIP purchased as		Total	Switched Access Lines	VoIP purchased as		Total		
		Stand- alone	Bundled with Internet			Stand- alone	Bundled with Internet			
Alabama	428	0	5	433	263	9	49	322	755	43%
Alaska	119	0	#	119	*	#	#	*	*	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	520	0	1	521	302	39	233	574	1,094	52
Arkansas	281	0	3	284	95	6	32	133	417	32
California	4,984	0	127	5,111	1,702	272	904	2,879	7,990	36
Colorado	488	0	0	488	349	30	124	503	991	51
Connecticut	448	0	12	460	153	17	68	238	698	34
Delaware	114	0	2	116	48	4	6	58	174	33
District of Columbia	447	0	5	453	221	14	62	297	750	40
Florida	1,834	0	48	1,883	1,367	104	256	1,726	3,609	48
Georgia	1,032	0	27	1,059	704	38	124	866	1,925	45
Guam	18	0	0	18	*	0	*	*	*	*
Hawaii	185	#	6	191	48	2	19	69	260	26
Idaho	150	0	0	150	54	10	24	89	239	37
Illinois	1,631	0	53	1,684	555	50	189	794	2,477	32
Indiana	685	2	9	695	167	19	58	243	938	26
Iowa	297	#	#	297	106	6	64	176	473	37
Kansas	271	0	4	275	113	13	69	195	470	41
Kentucky	424	0	5	428	158	7	31	197	625	31
Louisiana	464	0	9	473	203	13	85	301	774	39
Maine	107	0	#	107	130	3	15	149	256	58
Maryland	860	0	15	876	357	38	108	503	1,379	37
Massachusetts	773	0	12	785	771	33	62	866	1,651	52
Michigan	1,008	0	32	1,040	281	28	99	408	1,448	28
Minnesota	444	#	2	446	371	14	201	586	1,032	57
Mississippi	281	#	4	285	63	5	14	82	367	22
Missouri	632	0	23	655	211	14	73	299	953	31
Montana	106	0	0	106	30	3	29	62	167	37
Nebraska	196	0	0	196	110	9	52	171	367	47
Nevada	274	0	1	276	124	18	78	220	496	44
New Hampshire	98	0	1	99	107	7	12	126	225	56
New Jersey	1,055	0	30	1,085	767	48	216	1,031	2,116	49
New Mexico	190	0	0	190	57	6	28	91	281	32
New York	1,974	0	55	2,029	1,614	107	553	2,274	4,303	53
North Carolina	953	0	10	963	678	29	121	829	1,792	46
North Dakota	71	0	0	71	40	1	31	72	144	50
Northern Mariana Isl.	8	0	0	8	0	0	0	0	8	0
Ohio	1,191	0	27	1,218	448	37	144	629	1,847	34
Oklahoma	353	0	4	358	134	20	85	239	597	40
Oregon	309	0	0	309	211	18	55	285	594	48
Pennsylvania	1,299	0	35	1,334	1,229	49	104	1,383	2,717	51
Puerto Rico	153	0	0	153	104	6	22	133	286	46
Rhode Island	77	0	1	78	120	9	31	161	239	67
South Carolina	426	0	10	436	235	24	49	308	744	41
South Dakota	75	0	#	75	62	1	7	70	145	48
Tennessee	558	0	13	571	511	15	76	602	1,173	51
Texas	2,664	0	92	2,756	959	93	288	1,339	4,096	33
Utah	210	0	0	210	134	16	120	270	480	56
Vermont	66	0	#	66	38	2	4	43	110	40
Virgin Islands	18	0	0	18	0	*	*	*	*	*
Virginia	971	0	25	996	564	59	222	845	1,841	46
Washington	581	#	#	581	328	36	95	459	1,040	44
West Virginia	190	0	0	190	86	3	15	105	295	36
Wisconsin	674	#	17	692	237	19	63	318	1,010	32
Wyoming	76	0	0	76	13	1	18	33	109	30
Nationwide	33,746	2	728	34,476	17,789	1,425	5,491	24,704	59,180	42

# = Rounds to zero. \* = Data withheld to maintain firm confidentiality.

**Table 12**  
**Non-ILEC Share of Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**

State	2008		2009		2010		2011		2012	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	16 %	21 %	21 %	24 %	28 %	30 %	31 %	32 %	34 %	36 %
Alaska	*	*	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0	0
Arizona	37	40	40	42	44	46	46	48	49	51
Arkansas	14	18	19	20	22	22	24	24	26	27
California	15	22	23	25	27	28	30	32	34	36
Colorado	19	31	32	34	36	39	40	42	44	47
Connecticut	15	29	31	33	35	37	39	41	43	44
Delaware	18	30	31	32	34	35	37	38	39	40
District of Columbia	15	20	20	21	31	32	34	35	37	39
Florida	14	27	28	31	36	39	40	42	44	46
Georgia	17	25	26	27	31	33	34	36	38	40
Guam	*	*	*	*	*	*	*	*	*	*
Hawaii	18	18	19	21	22	24	24	26	27	29
Idaho	11	17	18	19	25	28	26	27	29	31
Illinois	14	24	24	25	27	30	32	33	35	37
Indiana	11	18	19	20	23	25	27	28	30	32
Iowa	19	22	22	24	26	27	28	29	30	31
Kansas	28	31	31	32	34	36	37	38	40	41
Kentucky	18	25	27	28	29	33	32	35	31	31
Louisiana	21	23	25	27	30	32	33	34	37	37
Maine	24	30	33	36	38	39	40	42	42	45
Maryland	15	25	26	27	28	30	31	32	35	36
Massachusetts	25	39	40	42	44	49	52	53	55	53
Michigan	20	29	30	33	34	36	38	39	40	42
Minnesota	22	31	32	34	36	37	38	43	43	45
Mississippi	11	16	17	20	23	25	22	23	24	25
Missouri	15	18	18	20	22	23	24	25	26	27
Montana	19	21	22	23	24	26	29	31	33	35
Nebraska	31	34	35	38	39	42	42	42	43	44
Nevada	26	30	31	33	36	39	40	42	43	44
New Hampshire	25	42	45	49	51	54	55	56	57	59
New Jersey	18	34	36	38	40	46	47	49	50	51
New Mexico	9	14	15	17	19	21	22	24	26	27
New York	31	41	42	44	46	49	50	51	52	52
North Carolina	20	24	25	27	33	35	36	37	39	41
North Dakota	24	32	31	35	36	38	37	38	38	38
Northern Mariana Isl.	0	0	0	0	0	0	0	0	0	0
Ohio	23	25	26	28	29	31	32	33	34	36
Oklahoma	27	30	30	34	35	38	39	40	41	41
Oregon	18	31	32	34	36	39	41	42	44	46
Pennsylvania	21	30	30	32	35	38	40	41	42	43
Puerto Rico	19	22	25	22	26	25	25	25	27	29
Rhode Island	50	52	53	54	54	58	60	59	59	57
South Carolina	19	23	24	26	30	32	32	33	35	36
South Dakota	32	36	36	44	45	47	48	50	51	52
Tennessee	18	25	25	28	33	36	37	39	41	44
Texas	18	22	22	23	24	25	27	28	30	31
Utah	21	26	32	34	36	38	39	44	45	49
Vermont	13	24	23	27	29	31	34	35	35	37
Virgin Islands	0	*	0	*	*	*	*	*	*	*
Virginia	23	31	32	34	33	35	36	37	38	39
Washington	16	30	32	35	37	40	42	44	46	47
West Virginia	16	22	24	27	29	30	31	32	33	34
Wisconsin	24	26	26	27	27	30	31	32	33	35
Wyoming	19	21	21	22	24	26	29	33	36	37
Nationwide	19 %	27 %	28 %	30 %	32 %	35 %	36 %	38 %	39 %	41 %

\* = Data withheld to maintain firm confidentiality. NA = Not available. Some previously published data have been revised.

<sup>1</sup> See footnote 1, Table 1.

**Table 13**  
**Non-ILEC Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**  
(In Thousands)

State	2008		2009		2010		2011		2012	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	352	463	453	494	594	622	620	634	644	673
Alaska	*	*	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0	0
Arizona	1,129	1,227	1,173	1,193	1,236	1,244	1,203	1,228	1,243	1,278
Arkansas	175	220	224	230	248	250	257	253	261	266
California	3,101	4,607	4,764	4,857	5,166	5,342	5,515	5,655	5,899	6,117
Colorado	449	847	825	837	884	929	944	967	1,011	1,063
Connecticut	291	630	644	680	706	751	782	799	826	840
Delaware	85	166	166	165	173	174	177	179	182	183
District of Columbia	136	183	180	190	300	314	337	343	347	362
Florida	1,276	2,748	2,737	2,907	3,525	3,729	3,690	3,848	3,940	4,052
Georgia	764	1,174	1,133	1,173	1,370	1,410	1,427	1,496	1,572	1,649
Guam	*	*	*	*	*	*	*	*	*	*
Hawaii	115	114	117	125	128	138	137	147	153	159
Idaho	79	123	117	123	159	177	149	150	164	168
Illinois	875	1,667	1,614	1,634	1,658	1,826	1,899	1,909	2,007	2,033
Indiana	313	565	562	592	647	691	719	750	763	773
Iowa	273	309	310	322	344	354	360	362	370	372
Kansas	375	419	413	408	429	436	440	437	443	437
Kentucky	331	497	508	521	546	621	591	636	526	510
Louisiana	449	491	507	539	602	642	640	635	701	669
Maine	181	233	250	274	282	283	285	293	294	298
Maryland	479	868	891	911	912	961	981	1,015	1,103	1,123
Massachusetts	871	1,602	1,592	1,643	1,695	1,967	2,198	2,169	2,306	1,996
Michigan	927	1,458	1,451	1,501	1,518	1,576	1,580	1,586	1,618	1,604
Minnesota	572	877	864	905	927	942	956	1,107	1,061	1,105
Mississippi	122	184	184	214	252	267	227	227	234	228
Missouri	471	523	518	553	598	611	606	611	628	629
Montana	96	101	103	104	109	117	127	137	146	151
Nebraska	274	299	302	332	330	359	348	342	349	351
Nevada	372	420	411	416	451	476	471	493	505	512
New Hampshire	167	347	351	376	388	395	397	396	404	396
New Jersey	866	1,946	1,986	2,004	2,104	2,464	2,530	2,574	2,626	2,585
New Mexico	75	123	128	138	157	168	171	177	188	195
New York	3,125	4,563	4,578	4,710	4,807	5,295	5,222	5,212	5,306	5,250
North Carolina	953	1,101	1,137	1,200	1,480	1,557	1,535	1,589	1,640	1,706
North Dakota	76	113	104	123	126	129	124	124	123	122
Northern Mariana Isl.	0	0	0	0	0	0	0	0	0	0
Ohio	1,365	1,473	1,450	1,492	1,550	1,615	1,563	1,589	1,607	1,646
Oklahoma	474	521	504	570	572	621	619	617	627	604
Oregon	300	575	563	582	615	631	650	659	690	699
Pennsylvania	1,423	2,205	2,176	2,201	2,422	2,650	2,759	2,787	2,847	2,875
Puerto Rico	186	210	234	170	244	231	228	224	226	239
Rhode Island	301	317	311	311	308	353	383	360	356	312
South Carolina	399	478	497	535	622	645	623	640	657	667
South Dakota	124	140	136	183	188	193	199	209	211	211
Tennessee	523	756	726	791	966	1,020	1,051	1,084	1,122	1,165
Texas	1,919	2,387	2,358	2,372	2,452	2,498	2,556	2,586	2,723	2,804
Utah	211	274	342	353	362	371	375	427	439	485
Vermont	47	90	91	102	110	116	126	129	128	129
Virgin Islands	0	*	#	*	*	*	*	*	*	*
Virginia	1,043	1,443	1,476	1,565	1,463	1,497	1,523	1,527	1,542	1,570
Washington	471	1,031	1,025	1,095	1,162	1,221	1,229	1,257	1,323	1,334
West Virginia	141	196	214	235	248	269	270	280	287	289
Wisconsin	744	770	755	771	728	791	794	804	814	840
Wyoming	51	54	53	54	58	62	68	79	86	86
Total	30,049	44,267	44,351	45,927	49,077	52,155	52,820	53,891	55,419	55,957

# = Rounds to zero. \* = Data withheld to maintain firm confidentiality. Some previously published data have been revised.

<sup>1</sup> See footnote 1, Table 1.

**Table 14**  
**ILEC Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**  
(In Thousands)

State	2008		2009		2010		2011		2012	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	1,861	1,746	1,665	1,579	1,506	1,438	1,386	1,322	1,263	1,201
Alaska	294	289	282	273	271	260	257	247	243	228
American Samoa	11	10	10	10	10	10	9	9	9	9
Arizona	1,943	1,847	1,741	1,649	1,563	1,476	1,409	1,343	1,279	1,224
Arkansas	1,069	1,021	982	941	904	865	827	789	756	725
California	17,149	16,345	15,555	14,796	14,118	13,455	12,786	12,197	11,614	11,067
Colorado	1,973	1,873	1,758	1,656	1,569	1,473	1,409	1,329	1,270	1,207
Connecticut	1,632	1,540	1,463	1,389	1,326	1,268	1,214	1,165	1,111	1,060
Delaware	396	380	363	344	331	317	307	297	288	279
District of Columbia	788	737	714	697	680	679	644	627	595	561
Florida	7,932	7,440	6,918	6,491	6,138	5,798	5,508	5,259	4,992	4,743
Georgia	3,675	3,468	3,304	3,156	3,011	2,881	2,779	2,659	2,561	2,455
Guam	62	54	51	49	48	48	45	42	40	40
Hawaii	516	512	489	473	455	444	431	419	406	397
Idaho	609	582	550	514	486	455	433	404	395	375
Illinois	5,562	5,342	5,086	4,812	4,581	4,313	4,078	3,852	3,705	3,507
Indiana	2,665	2,547	2,434	2,300	2,186	2,064	1,945	1,894	1,780	1,677
Iowa	1,162	1,113	1,077	1,024	987	940	917	882	850	817
Kansas	977	939	899	858	820	774	737	700	669	638
Kentucky	1,542	1,458	1,387	1,352	1,317	1,272	1,238	1,195	1,155	1,111
Louisiana	1,710	1,634	1,561	1,489	1,426	1,369	1,318	1,255	1,205	1,147
Maine	579	542	519	482	463	438	428	407	401	367
Maryland	2,792	2,588	2,520	2,403	2,333	2,262	2,193	2,128	2,062	1,993
Massachusetts	2,609	2,493	2,369	2,238	2,149	2,065	1,991	1,926	1,858	1,797
Michigan	3,719	3,514	3,323	3,113	2,952	2,757	2,619	2,513	2,382	2,240
Minnesota	2,006	1,922	1,826	1,725	1,666	1,583	1,537	1,468	1,419	1,350
Mississippi	1,018	963	922	879	848	813	783	752	723	690
Missouri	2,568	2,465	2,367	2,259	2,162	2,055	1,961	1,866	1,788	1,711
Montana	406	387	371	351	342	327	318	302	295	282
Nebraska	606	584	564	543	521	501	489	474	460	443
Nevada	1,042	972	911	856	809	759	719	691	673	646
New Hampshire	507	470	435	385	366	342	326	312	304	279
New Jersey	3,936	3,734	3,519	3,288	3,112	2,937	2,807	2,700	2,587	2,496
New Mexico	783	754	713	682	651	618	595	569	546	523
New York	6,902	6,557	6,234	5,900	5,653	5,416	5,258	5,099	4,943	4,824
North Carolina	3,715	3,519	3,335	3,189	3,045	2,886	2,779	2,691	2,584	2,474
North Dakota	248	241	233	224	220	213	210	206	204	201
Northern Mariana Isl.	18	17	17	16	16	16	15	15	15	15
Ohio	4,537	4,326	4,124	3,914	3,719	3,515	3,342	3,172	3,100	2,957
Oklahoma	1,267	1,215	1,169	1,117	1,070	1,022	981	939	907	869
Oregon	1,359	1,286	1,210	1,140	1,080	1,003	949	895	881	833
Pennsylvania	5,494	5,243	5,029	4,771	4,571	4,387	4,217	4,055	3,894	3,796
Puerto Rico	786	755	698	610	706	707	689	655	625	583
Rhode Island	302	292	281	270	264	260	255	252	245	240
South Carolina	1,728	1,629	1,561	1,488	1,429	1,368	1,330	1,284	1,236	1,183
South Dakota	261	251	244	233	227	217	212	205	202	197
Tennessee	2,436	2,297	2,170	2,061	1,962	1,846	1,774	1,681	1,599	1,512
Texas	9,020	8,673	8,307	7,999	7,678	7,360	7,046	6,725	6,431	6,159
Utah	811	776	725	690	657	614	586	554	529	502
Vermont	323	289	299	280	265	253	245	237	234	218
Virgin Islands	62	61	59	57	59	58	56	53	49	49
Virginia	3,422	3,265	3,160	3,050	2,944	2,811	2,705	2,633	2,518	2,432
Washington	2,509	2,367	2,211	2,071	1,962	1,815	1,722	1,621	1,572	1,492
West Virginia	752	714	677	637	606	628	603	588	580	559
Wisconsin	2,336	2,246	2,156	2,051	1,970	1,874	1,807	1,715	1,665	1,589
Wyoming	218	209	200	190	183	175	168	160	153	146
Total	124,606	118,496	112,748	107,018	102,395	97,497	93,394	89,428	85,849	82,115

Some previously published data have been revised.

<sup>1</sup> See footnote 1, Table 1.

**Table 15**  
**Non-ILEC Methods of Providing Wireline Telephone Services by State**  
**as of December 31, 2012**  
**(In Thousands)**

State	Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP Subscriptions <sup>1</sup>	Total
Alabama	94	151	89	339	673
Alaska	*	*	*	*	*
American Samoa	0	0	0	0	0
Arizona	146	88	319	725	1,278
Arkansas	25	19	63	159	266
California	1,094	528	497	3,999	6,117
Colorado	158	142	69	694	1,063
Connecticut	58	48	85	650	840
Delaware	31	20	1	131	183
District of Columbia	155	42	35	130	362
Florida	570	574	266	2,642	4,052
Georgia	234	387	158	870	1,649
Guam	*	*	*	*	*
Hawaii	28	3	17	112	159
Idaho	19	25	27	97	168
Illinois	263	229	117	1,425	2,033
Indiana	66	66	83	559	773
Iowa	46	37	86	203	372
Kansas	40	35	112	250	437
Kentucky	79	72	67	292	510
Louisiana	86	102	83	398	669
Maine	23	58	59	159	298
Maryland	242	133	79	669	1,123
Massachusetts	298	197	324	1,178	1,996
Michigan	105	197	50	1,252	1,604
Minnesota	121	202	135	647	1,105
Mississippi	39	35	8	145	228
Missouri	61	121	54	392	629
Montana	7	10	25	109	151
Nebraska	69	9	115	158	351
Nevada	69	37	19	386	512
New Hampshire	37	47	25	287	396
New Jersey	352	173	296	1,765	2,585
New Mexico	32	11	21	131	195
New York	693	453	631	3,473	5,250
North Carolina	274	295	132	1,005	1,706
North Dakota	4	16	60	42	122
Northern Mariana Isl.	0	0	0	0	0
Ohio	151	171	183	1,141	1,646
Oklahoma	77	52	124	351	604
Oregon	55	121	55	468	699
Pennsylvania	495	414	428	1,538	2,875
Puerto Rico	12	*	*	134	239
Rhode Island	31	17	140	124	312
South Carolina	104	115	72	377	667
South Dakota	9	6	120	77	211
Tennessee	190	244	136	595	1,165
Texas	362	439	263	1,739	2,804
Utah	53	69	29	334	485
Vermont	7	19	16	86	129
Virgin Islands	*	*	*	*	*
Virginia	318	163	227	862	1,570
Washington	101	186	85	963	1,334
West Virginia	36	53	15	185	289
Wisconsin	53	176	48	563	840
Wyoming	5	7	5	69	86
Total	7,682	6,881	6,296	35,097	55,957

\* = Data withheld to maintain firm confidentiality. Figures may not sum to totals due to rounding.

<sup>1</sup> See footnote 1, Table 1.

**Table 16**  
**Percentage of End-User Switched Access Lines and VoIP Subscriptions**  
**Provided to Residential Customers by State as of December 31, 2012**

State	ILECs	Non-ILECs	Total
Alabama	64%	52%	60%
Alaska	48	*	*
American Samoa	44	NA	44
Arizona	57	55	56
Arkansas	61	50	58
California	54	53	54
Colorado	60	53	56
Connecticut	57	72	63
Delaware	58	68	62
District of Columbia	19	18	19
Florida	60	57	59
Georgia	57	47	53
Guam	55	*	*
Hawaii	52	57	53
Idaho	60	47	56
Illinois	52	61	55
Indiana	59	69	62
Iowa	64	53	60
Kansas	57	56	56
Kentucky	61	62	61
Louisiana	59	55	57
Maine	71	50	62
Maryland	56	55	56
Massachusetts	56	57	56
Michigan	54	75	62
Minnesota	67	47	58
Mississippi	59	64	60
Missouri	62	52	59
Montana	62	59	61
Nebraska	56	51	54
Nevada	57	57	57
New Hampshire	65	68	67
New Jersey	57	60	58
New Mexico	63	53	61
New York	58	57	57
North Carolina	61	51	57
North Dakota	65	41	55
Northern Mariana Isl.	47	NA	47
Ohio	59	62	60
Oklahoma	59	60	59
Oregon	63	59	61
Pennsylvania	65	52	59
Puerto Rico	74	44	65
Rhode Island	68	49	57
South Carolina	63	54	60
South Dakota	62	67	64
Tennessee	62	48	56
Texas	55	52	54
Utah	58	44	51
Vermont	69	66	68
Virgin Islands	63	*	*
Virginia	59	46	54
Washington	61	66	63
West Virginia	66	64	65
Wisconsin	56	62	58
Wyoming	48	62	53
Nationwide	58	56	57

\* = Data withheld to maintain firm confidentiality. NA = Not applicable.

**Table 17**  
**Number of Reporting ILECs, Non-ILECs, and VoIP Providers by State**  
**as of December 31, 2012**

<b>State</b>	<b>ILECs</b>	<b>Non-ILECs</b>	<b>Total<sup>1</sup></b>	<b>VoIP Providers<sup>2</sup></b>
Alabama	20	130	143	105
Alaska	17	25	41	25
American Samoa	1	0	1	0
Arizona	15	128	139	112
Arkansas	20	94	110	76
California	15	185	196	157
Colorado	26	146	169	121
Connecticut	2	108	108	93
Delaware	1	86	87	72
District of Columbia	1	90	91	73
Florida	10	216	221	168
Georgia	27	180	197	141
Guam	1	6	7	5
Hawaii	2	45	46	41
Idaho	18	85	97	72
Illinois	44	186	219	144
Indiana	29	137	157	105
Iowa	134	130	235	82
Kansas	39	120	145	95
Kentucky	17	134	143	106
Louisiana	10	114	118	89
Maine	7	71	75	56
Maryland	2	146	146	119
Massachusetts	4	133	134	109
Michigan	25	138	154	110
Minnesota	47	131	163	100
Mississippi	13	103	110	81
Missouri	31	125	148	98
Montana	17	73	83	57
Nebraska	30	89	111	67
Nevada	12	103	113	92
New Hampshire	6	90	96	75
New Jersey	3	151	151	125
New Mexico	16	91	100	72
New York	26	171	185	141
North Carolina	19	155	165	122
North Dakota	23	64	80	44
Northern Mariana Isl	1	0	1	0
Ohio	33	156	179	124
Oklahoma	38	102	135	77
Oregon	23	120	139	98
Pennsylvania	22	170	183	143
Puerto Rico	1	19	19	17
Rhode Island	1	77	78	60
South Carolina	17	128	134	97
South Dakota	29	63	83	49
Tennessee	18	140	153	111
Texas	51	214	247	158
Utah	13	95	105	80
Vermont	7	69	75	59
Virgin Islands	1	4	5	4
Virginia	15	141	150	118
Washington	16	143	155	124
West Virginia	6	89	92	78
Wisconsin	40	138	162	102
Wyoming	9	77	81	61
Nationwide	753	913	1,442	591

<sup>1</sup> Providers that report both ILEC and non-ILEC operations in a state are counted once in the ILECs column and once in the Non-ILECs column and once in the Total column for that state. Either type of operations might report interconnected VoIP subscribers.

<sup>2</sup> The providers reporting interconnected VoIP subscribers in a state are a subset of the ILECs and non-ILECs in that state.

**Table 18**  
**Mobile Telephone Facilities-based Carriers and Mobile Telephony Subscribers**

State	Dec 2012		Subscribers (In Thousands)									
	Carriers	% Resold <sup>1</sup>	2008		2009		2010		2011		2012	
			Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	10	16 %	3,887	3,960	4,003	4,228	4,211	4,328	4,350	4,486	4,545	4,549
Alaska	11	5	480	383	544	586	590	608	619	634	642	649
American Samoa	*	*	*	*	*	*	*	*	*	*	*	*
Arizona	9	11	4,936	4,983	5,005	5,101	5,268	5,285	5,402	5,523	5,686	5,774
Arkansas	8	25	2,446	2,530	2,576	2,519	2,485	2,673	2,773	3,155	3,185	2,963
California	14	5	31,946	32,177	32,215	32,938	33,548	33,839	34,299	34,835	35,103	35,616
Colorado	12	9	4,066	4,311	4,357	4,503	4,647	4,687	4,705	4,759	4,817	4,878
Connecticut	8	8	2,959	3,030	3,047	3,123	3,192	3,230	3,305	3,353	3,379	3,418
Delaware	9	9	775	778	779	803	859	851	881	892	899	903
District of Columbia	7	10	1,047	1,096	1,116	1,183	1,227	1,249	1,273	1,346	1,376	1,400
Florida	11	10	15,809	16,158	16,425	16,744	16,895	17,251	17,613	17,893	18,135	18,369
Georgia	12	16	8,142	8,322	8,562	8,863	8,869	9,063	9,137	9,647	10,051	10,054
Guam	5	2	*	*	*	*	*	*	139	*	154	153
Hawaii	7	6	1,115	1,184	1,196	1,216	1,248	1,252	1,274	1,295	1,313	1,339
Idaho	12	8	1,125	1,167	1,180	1,221	1,269	1,277	1,293	1,321	1,346	1,363
Illinois	14	13	10,634	10,919	11,070	11,523	11,604	12,057	12,259	12,689	12,898	12,859
Indiana	12	13	4,824	4,956	4,983	5,205	5,289	5,410	5,496	5,572	5,670	5,786
Iowa	67	10	2,245	2,319	2,336	2,432	2,466	2,535	2,559	2,654	2,714	2,777
Kansas	12	17	2,326	2,421	2,430	2,466	2,491	2,560	2,570	2,649	2,686	2,696
Kentucky	11	15	3,343	3,445	3,439	3,631	3,654	3,726	3,754	3,810	3,879	3,976
Louisiana	12	18	3,896	4,012	4,053	3,993	3,953	4,340	4,876	5,412	5,336	4,898
Maine	7	24	972	1,012	1,006	1,065	1,040	1,124	1,090	1,176	1,192	1,204
Maryland	10	15	5,124	5,234	5,260	5,323	5,500	5,560	5,665	6,018	6,146	6,116
Massachusetts	7	10	5,624	5,749	6,027	6,171	6,367	6,316	6,419	6,522	6,626	6,703
Michigan	10	15	7,821	8,027	8,171	8,576	8,690	8,861	9,391	9,239	9,292	9,598
Minnesota	10	13	4,164	4,345	4,254	4,439	4,611	4,704	4,782	4,934	5,063	5,154
Mississippi	9	14	2,252	2,312	2,361	2,345	2,322	2,440	2,516	2,656	2,718	2,656
Missouri	11	15	4,835	4,940	4,985	5,129	5,141	5,309	5,458	5,627	5,708	5,668
Montana	9	15	723	748	707	802	783	846	803	862	880	888
Nebraska	12	9	1,451	1,496	1,508	1,515	1,566	1,523	1,542	1,646	1,668	1,675
Nevada	10	13	2,249	2,268	2,325	2,393	2,417	2,453	2,490	2,556	2,595	2,611
New Hampshire	9	14	1,045	1,080	1,075	1,125	1,141	1,170	1,171	1,204	1,212	1,225
New Jersey	9	7	7,834	8,008	8,036	8,158	8,624	8,601	8,786	8,915	8,933	9,015
New Mexico	10	8	1,555	1,536	1,550	1,624	1,668	1,689	1,662	1,687	1,716	1,737
New York	11	12	17,260	16,702	18,193	18,882	19,303	19,504	19,938	20,199	20,387	20,715
North Carolina	14	13	7,428	8,024	7,865	8,108	8,259	8,526	8,513	9,102	9,206	8,983
North Dakota	9	11	541	581	562	618	590	623	615	640	666	683
Northern Mariana Isl.	*	*	*	*	*	*	*	*	*	*	*	*
Ohio	12	13	9,357	9,565	9,456	10,059	10,236	10,511	10,936	11,118	11,381	11,549
Oklahoma	15	23	2,808	2,889	2,988	3,077	3,109	3,188	3,259	3,429	3,593	3,940
Oregon	9	9	3,007	3,084	3,112	3,235	3,297	3,340	3,355	3,420	3,456	3,519
Pennsylvania	15	13	9,895	10,214	10,455	10,867	11,070	11,424	11,401	11,576	11,704	11,956
Puerto Rico	6	9	2,502	2,624	2,706	2,807	2,879	3,014	3,004	2,989	2,969	3,047
Rhode Island	7	16	874	888	880	893	906	920	935	957	999	1,050
South Carolina	15	17	3,573	3,323	3,702	3,896	3,848	3,935	3,987	3,781	3,901	4,326
South Dakota	9	12	611	631	613	681	681	728	690	724	741	750
Tennessee	11	13	5,791	5,518	5,676	5,914	6,041	6,193	6,236	6,368	6,445	6,484
Texas	20	8	20,390	21,008	21,403	21,849	22,201	23,030	23,482	23,721	24,102	24,553
Utah	9	6	2,046	2,095	2,109	2,166	2,220	2,251	2,276	2,326	2,368	2,409
Vermont	6	18	421	435	398	463	431	485	471	507	519	518
Virgin Islands	4	13	*	*	*	*	*	*	117	117	*	113
Virginia	10	10	6,242	6,856	6,596	7,250	7,440	7,595	7,622	7,774	7,839	7,914
Washington	10	9	5,461	5,624	5,671	5,816	5,965	6,022	6,118	6,248	6,314	6,424
West Virginia	9	23	1,236	1,295	1,315	1,401	1,406	1,500	1,506	1,650	1,671	1,603
Wisconsin	14	13	3,966	4,265	4,317	4,546	4,599	4,730	4,895	4,929	4,949	5,043
Wyoming	10	11	457	484	429	517	501	526	514	532	541	545
Nationwide	180	11 %	255,729	261,284	265,332	274,283	278,918	285,118	290,318	297,268	301,521	304,881

\* = Data withheld to maintain firm confidentiality. December 2011 and June 2012 data have been revised to remove subscribers inappropriately reported by mobile wireless resellers and therefore double counted in the data. Consequently, December 2012 carrier counts are somewhat lower than recently published carrier counts.

<sup>1</sup> Percentage of mobile telephony subscribers purchasing their service subscriptions from a mobile wireless reseller.



**Table 19**  
**Percentage of ZIP Codes with CLECs or Non-ILEC VoIP Providers<sup>1</sup>**

Number of Providers <sup>2</sup>	2008		2009		2010		2011		2012	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	18.3 %	7.7 %	8.7 %	9.3 %	7.1 %	6.9 %	7.2 %	7.6 %	7.6 %	6.9 %
One	11.6	9.2	10.1	10.1	8.7	8.6	8.7	8.0	7.6	7.4
Two	8.6	7.8	7.9	7.6	7.4	7.6	7.6	6.5	6.6	6.3
Three	6.3	6.4	6.1	6.2	6.2	6.3	6.4	5.8	5.8	5.6
Four	5.0	5.4	5.4	5.2	5.2	5.5	5.5	5.3	5.1	5.0
Five	4.1	4.8	4.6	4.5	4.7	5.0	5.1	4.6	4.7	4.6
Six	3.5	4.2	4.0	3.8	4.2	4.2	4.3	4.5	4.1	4.3
Seven	3.2	3.6	3.4	3.5	3.6	3.7	4.0	3.6	3.7	3.8
Eight	3.0	3.2	3.1	3.0	3.4	3.5	3.4	3.3	3.3	3.2
Nine	2.7	2.8	2.6	2.7	2.8	3.0	3.0	3.1	3.2	3.0
Ten or More	33.6	44.7	44.0	44.0	46.6	45.7	44.8	47.7	48.3	49.9

**Table 20**  
**Percentage of Households in ZIP Codes with CLECs or Non-ILEC VoIP Providers<sup>1</sup>**

Number of Providers <sup>2</sup>	2008		2009		2010		2011		2012	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	2.6 %	0.4 %	0.5 %	0.6 %	0.4 %	0.4 %	0.4 %	0.4 %	0.4 %	0.0 %
One	2.4	0.9	1.2	1.2	0.9	0.8	0.8	0.7	0.6	0.4
Two	2.4	1.2	1.3	1.3	1.0	1.1	1.1	0.8	0.8	0.6
Three	2.4	1.3	1.4	1.4	1.3	1.2	1.2	1.0	1.0	0.7
Four	2.2	1.3	1.5	1.5	1.3	1.3	1.3	1.1	1.0	0.8
Five	2.2	1.6	1.4	1.5	1.4	1.4	1.5	1.2	1.2	0.9
Six	2.1	1.7	1.5	1.5	1.3	1.5	1.4	1.2	1.2	1.0
Seven	2.3	1.8	1.5	1.6	1.4	1.5	1.7	1.3	1.3	1.2
Eight	2.8	1.7	1.8	1.6	1.6	1.8	1.6	1.4	1.4	1.3
Nine	2.7	1.6	1.6	1.7	1.6	1.5	1.5	1.5	1.5	1.2
Ten or More	75.9	86.6	86.2	86.1	87.9	87.4	87.6	89.4	89.5	92.0

Demographic data were created by geographically merging contemporaneous TomTom ZIP Code Boundary and Inventory Files with census block group-level population data from Census. Figures may not add to 100% due to rounding.

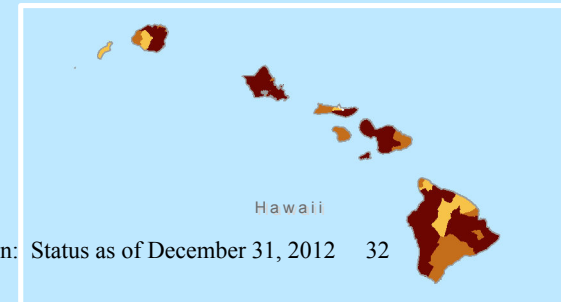
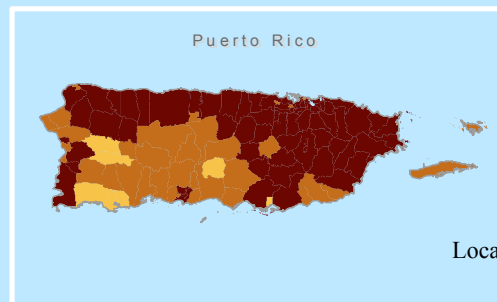
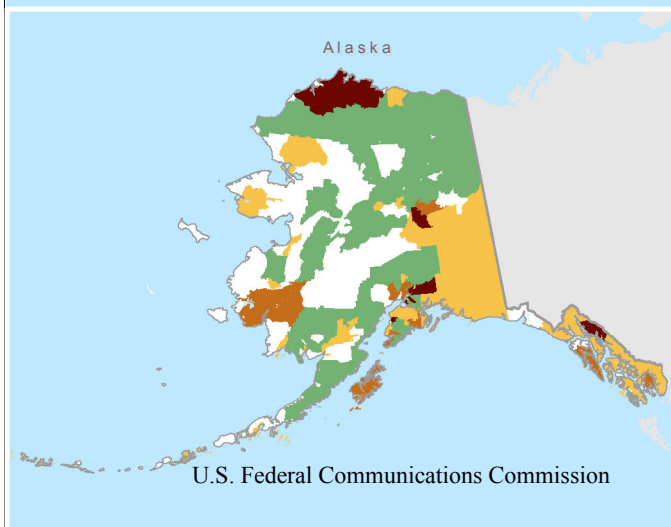
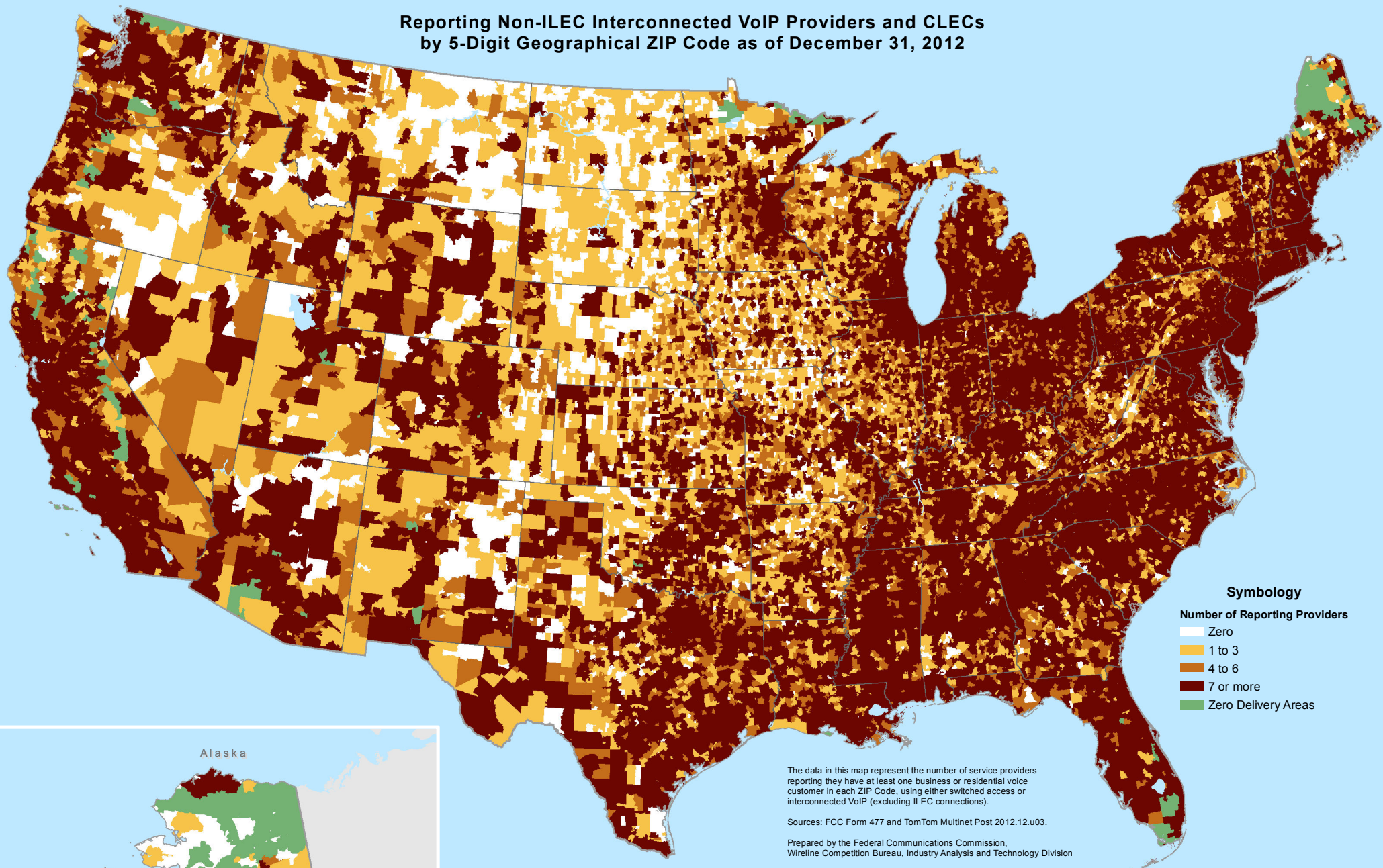
<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> An affiliate entity that reports both CLEC end-user switched access lines and interconnected VoIP subscribers in a state reports a single list of ZIP Codes in which it has any such customers and is counted once in each listed ZIP Code.

**Table 21**  
**Percentage of ZIP Codes with CLECs or Non-ILEC VoIP Providers by State**  
**as of December 31, 2012**

State	Number of Providers								
	Zero	One - Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	4 %	17 %	4 %	3 %	3 %	4 %	4 %	4 %	57 %
Alaska	56	29	1	2	2	1	1	0	7
Arizona	5	12	4	2	3	2	3	2	68
Arkansas	14	38	7	6	3	5	3	2	21
California	1	8	3	3	4	3	2	3	72
Colorado	8	21	6	3	2	2	2	2	55
Connecticut	0	3	3	3	2	3	3	6	76
Delaware	0	2	3	0	2	3	3	3	83
District of Columbia	0	7	14	0	0	0	0	0	79
Florida	0	2	1	2	2	2	1	2	87
Georgia	2	12	4	5	4	4	4	4	60
Hawaii	2	16	10	3	8	4	3	4	49
Idaho	7	33	8	5	5	6	4	3	30
Illinois	5	23	8	5	5	4	3	2	43
Indiana	3	16	7	7	6	5	4	4	48
Iowa	26	40	5	4	4	3	1	1	15
Kansas	15	37	6	4	5	3	3	2	26
Kentucky	6	28	6	5	7	6	5	5	33
Louisiana	2	17	5	5	4	4	2	3	57
Maine	6	21	9	8	6	7	6	7	31
Maryland	0	3	3	3	5	4	3	4	74
Massachusetts	0	3	2	1	2	2	1	2	86
Michigan	1	10	5	6	5	6	4	4	59
Minnesota	12	32	7	5	4	3	2	2	33
Mississippi	1	10	4	5	5	5	5	4	60
Missouri	17	31	6	5	4	3	3	2	29
Montana	34	38	4	3	2	2	2	1	15
Nebraska	19	46	6	5	3	2	2	2	15
Nevada	5	18	2	5	2	3	3	3	60
New Hampshire	0	3	2	5	6	6	10	3	66
New Jersey	0	0	0	0	1	1	2	2	93
New Mexico	19	32	6	6	3	2	3	2	27
New York	1	10	3	4	4	4	4	4	65
North Carolina	1	11	6	5	4	4	4	4	61
North Dakota	43	45	2	1	1	1	1	0	6
Ohio	0	6	5	5	6	6	5	4	62
Oklahoma	13	26	5	4	4	4	3	2	39
Oregon	7	22	5	6	5	5	2	3	45
Pennsylvania	1	15	6	6	6	3	5	3	55
Puerto Rico	0	7	8	6	16	20	13	16	14
Rhode Island	0	5	5	4	3	4	1	9	68
South Carolina	3	12	3	5	2	4	2	3	66
South Dakota	38	45	2	3	1	1	2	1	9
Tennessee	2	16	4	5	5	3	3	3	57
Texas	5	17	4	4	3	3	3	2	58
Utah	8	27	3	5	4	3	2	2	48
Vermont	2	32	6	10	4	8	4	6	27
Virginia	3	19	6	7	5	5	4	3	48
Washington	4	18	5	4	3	2	3	3	58
West Virginia	5	27	12	7	8	7	5	3	25
Wisconsin	6	29	7	6	6	4	3	3	37
Wyoming	13	49	4	3	4	2	3	2	19
Nationwide	7 %	19 %	5 %	5 %	4 %	4 %	3 %	3 %	50 %

# Reporting Non-ILEC Interconnected VoIP Providers and CLECs by 5-Digit Geographical ZIP Code as of December 31, 2012



## Technical Notes

### **General**

Detailed information about FCC Form 477 reporting requirements is available at [www.fcc.gov/form477](http://www.fcc.gov/form477).

See Glossary for definitions of terms used in this report.

### **Counting lines and subscribers**

- Form 477 counts both switched access lines and interconnected VoIP subscriptions as the maximum number of calls that may be active, simultaneously, from the end user's location under the purchased service plan. All VoIP subscriptions discussed in this report are interconnected VoIP subscriptions.
- Form 477 data may not count all VoIP phone connections to Internet Protocol Private Branch Exchange (IP PBX) equipment that is owned by business end users because of the variety of ways the IP PBX may connect to the public switched telephone network.

### **Holding company-subsidiary relationships**

- When counting service providers who have any retail customers in a particular geography (for example, a state or a ZIP Code), we count a holding company or common-control entity no more than once in any specified sub-category of total providers.
- Nationwide counts of providers are unique counts for any specified sub-category of total providers (for example, all non-ILECs or all interconnected VoIP providers); an entity operating in multiple states is counted only once.

### **ILEC-CLEC affiliations**

- Lines from CLECs who have ILEC affiliates are handled at the state level in one of several ways. We place the lines into the non-ILEC category if the affiliate is an ILEC other than AT&T or Verizon. Lines from CLEC affiliates of AT&T and Verizon are allocated between the ILEC and non-ILEC categories based on staff estimates if the CLEC operates in the AT&T or Verizon ILEC service area in the state, respectively.

### **ZIP Code-based information**

- Wireline service providers report whether they have at least one residential or business customer in each ZIP Code, using either switched access or interconnected VoIP. This contrasts with the census tract-based broadband reporting requirements the Commission adopted in 2008.

- The report includes summary statistics of the presence of competitors to the ILEC, or ILECs, in individual ZIP Codes. These entities are CLECs or interconnected VoIP providers who are not affiliated with the ILEC, or ILECs, who serve end users in that ZIP Code. However, because providers may not offer service across an entire ZIP Code and because different providers may target different customer segments in areas where they provide service, we cannot conclude that the number of providers identified as delivering wireline service within a ZIP Code represents the number of options available to any specific customer within that ZIP Code. We further note that these data on the number of providers in a ZIP Code do not indicate whether a particular provider is offering service solely over its own last-mile facilities or is using the facilities of another carrier or entity.

## Glossary

<b>Term</b>	<b>Definition</b>
Broadband bundle	The purchase, from the same or affiliated retailers, of interconnected VoIP service and broadband Internet access service, either for a single price or for separate prices.
Cable modem service	A service which offers customers access to the Internet over a cable system at broadband speeds.
Circuit switching	A method of completing electronic communications in which a transmission path is established for dedicated use by a communication; the basis of the public switched telephone network (PSTN).
CLEC	Competitive Local Exchange Carrier: A new LEC that operates within the service area of an ILEC.
DSL	Digital Subscriber Line: A digital local loop, typically using copper facilities, that frequently is used to offer customers access to the Internet at broadband speeds.
End users	Residential, business, institutional, or government entities that use services for their own purposes and who do not resell such services to other entities.
Fixed wireless service	A radio communication service between specified fixed points.
FTTP or FTTH	Fiber to the Premises (Home): A network access architecture in which optical fiber is deployed all the way to the customer's premises (home).
Internet access service	Service that provides end users access to the Internet.
ILEC	Incumbent Local Exchange Carrier: A company or cooperative that was providing telephone service in a localized area, typically on a monopoly basis, prior to enactment of the Telecommunications Act of 1996.
Internet protocol or IP	A language and set of formal rules that govern how packets transit the Internet.
Interconnected VoIP or iVoIP	A service that enables real-time, two-way voice communications; requires a broadband connection from the user's location; requires Internet-protocol compatible customer premises equipment; and permits users generally to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network.
LEC	Local Exchange Carrier: A company that provides telephone service within a localized area and access services that connect its customers to long-distance (Interexchange Carrier) networks.
Local loop	The physical connection between the customer's premises and the telephone company's local switching office, typically provided using copper, fiber, or a combination of copper and fiber facilities.
Mobile wireless service	A radio communication service between mobile and fixed stations, or between mobile stations.
Nomadic interconnected VoIP	A service whose terms allow use over any broadband connection available to the subscriber (such as at a hotel or vacation residence); by contrast, a non-nomadic service subscription must be used over a single predetermined broadband connection.

Non-ILEC	Any provider of communications services who does not have ILEC regulatory status.
Other ILEC	An ILEC who is not an RBOC.
Other wireline	All copper-wire based transmission technologies other than DSL technologies; Ethernet over copper and T-1 are examples.
OTT	Over-the-top: Interconnected VoIP service provided by entities that neither own nor operate telecommunications facilities.
Packet switching	A method of completing electronic communications in which the information is disassembled into discrete packets that are transmitted independently and later reassembled; IP is an example.
PBX	Private Branch Exchange: A telephone switch that is owned or leased by the telephone company's customer and generally located on the customer's premises.
Retail local telephone service	Retail switched access lines and interconnected VoIP subscriptions.
Retail switched access lines	Switched access lines for which an end user is the customer.
Standalone interconnected VoIP	The purchase of interconnected VoIP service without the purchase of broadband Internet access service from the same retailer, or from an affiliated retailer.
Special access circuit	A dedicated, non-switched circuit (connection or line) provided by an ILEC, commonly used to connect an end user to another communications service provider; also frequently used by wireless service providers to connect cell towers to mobile switching centers (MSCs).
Switched access line	A service connection between an end user and the local telephone company's switch; the basis of plain old telephone service (POTS).
Total ILEC lines	The sum of ILEC-reported retail switched access lines, interconnected VoIP subscriptions, wholesale switched access lines, and UNEs provided to CLECs.
UNE	Unbundled Network Element: A physical or functional element of an ILEC network that must be provided to a CLEC at a cost-based price, as provide for in the Telecommunications Act of 1996.
UNE-L	UNE-Loop: An ILEC unbundled local loop provided to a CLEC at a cost-base price.
UNE-P	UNE-Platform: The combination of ILEC unbundled local loop, switching, and transport, provided to a CLEC at cost-based prices.
Wholesale switched access lines	Local telephone service provided to an unaffiliated telephone company, which resells the service to end users; typically provided by an ILEC to a CLEC.
ZIP Code	A five-digit geographical ZIP Code.

# Customer Response

Publication: *Local Telephone Competition: Status as of December 31, 2012*

You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis and Technology Division of the FCC's Wireline Competition Bureau.

1. Please check the category that best describes you:

- ☐ press
- ☐ current telecommunications carrier
- ☐ potential telecommunications carrier
- ☐ business customer evaluating vendors/service options
- ☐ consultant, law firm, lobbyist
- ☐ other business customer
- ☐ academic/student
- ☐ residential customer
- ☐ FCC employee
- ☐ other federal government employee
- ☐ state or local government employee
- ☐ Other (please specify)

2. Please rate the report:      Excellent      Good      Satisfactory      Poor      No opinion

Data accuracy	( )	( )	( )	( )	( )
Data presentation	( )	( )	( )	( )	( )
Timeliness of data	( )	( )	( )	( )	( )
Completeness of data	( )	( )	( )	( )	( )
Text clarity	( )	( )	( )	( )	( )
Completeness of text	( )	( )	( )	( )	( )

3. Overall, how do you rate this report?      Excellent      Good      Satisfactory      Poor      No opinion

( )      ( )      ( )      ( )      ( )

4. How can this report be improved?

5. May we contact you to discuss possible improvements?

Name:

Telephone #:

To discuss the information in this report, contact: 202-418-0940 or for users of TTY equipment, call 202-418-0484		
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